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- WebClient Mode

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- Server Setup

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- Server Function
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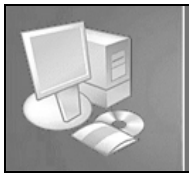


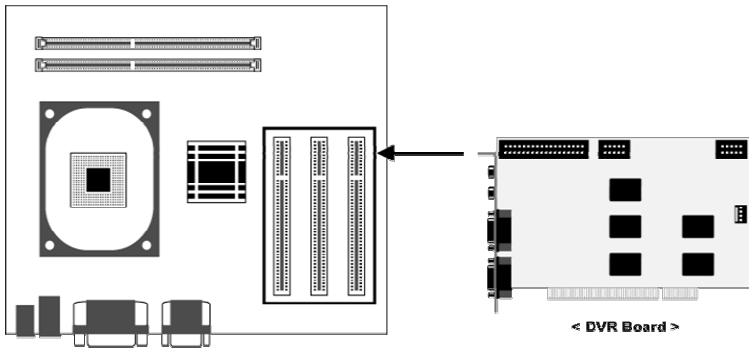
Hardware Installation

When you purchase DVR, you have to install DVR board in user's PC or DVR system. This is installation guide for Capture board among DVR board. In case of installing Live series board, please refer to Live series manual.

	Minimum Requirement
CPU	Intel Celeron™ 1.7Ghz or higher
RAM	256 MB or higher
HDD	80 GB 7200rpm or higher
Motherboard	Intel i845 Chipset built-in motherboard Ref In case of using analog audio, we recommend to use Intel i865 Chipset built-in motherboard.
VGA	Refer to 115page
OS	Only Windows 2000™, Windows XP™
Direct X	DirectX 8.1 or higher

1 DVR board & Extension video cable installation

Insert the DVR board to an empty PC slot in DVR system.



< DVR Board >

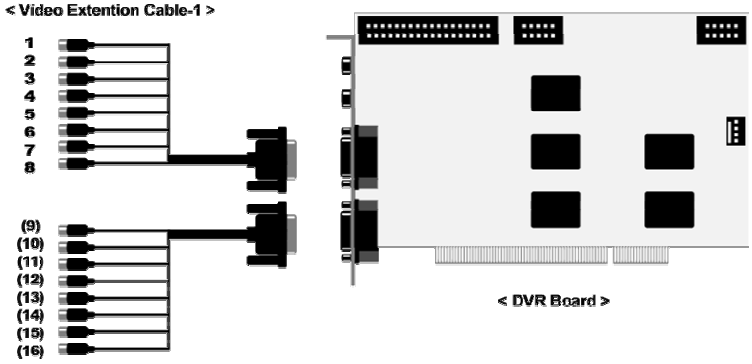
< Mother board >

2 Video & Audio connection

Video input installation

DVR board: You connect to DVR board with 4ch video extension cable or 8ch video extension cable.

< Video Extention Cable-1 >



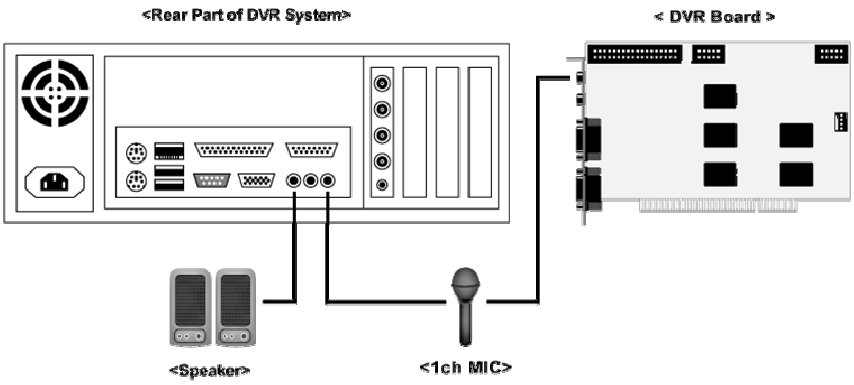
< DVR Board >

< Video Extention Cable-2 >

Audio input installation

In case of connection MIC to MIC IN port of motherboard.
MIC connect to MIC IN port of motherboard.

In case of connection MIC to Audio IN port of DVR board.
MIC connect to Audio IN port of DVR board.



* Connection to MIC (over 4ch)
Each DVR board supports various MIC input channel according to model. When you use over 2ch MIC input, please connect additional audio extension cable.

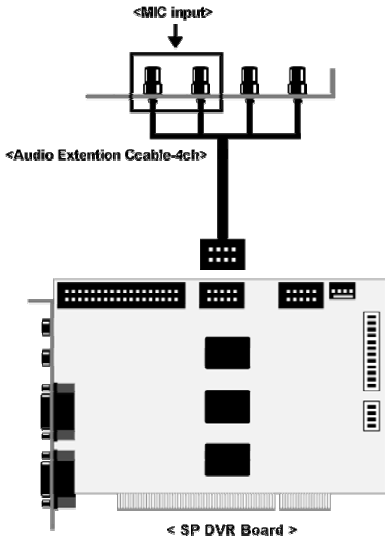
Board	Analogue audio	Digital audio	Sound Card
S	1 ch	-	1 ch
SP	2 ch	4 ch	1 ch
H	4 ch	-	1 ch
HP	8 ch	-	1 ch
RD	X	-	1 ch
Live 120	X	4 ch	1 ch
Live 480	X	8 ch	1 ch

- S board

S board supports only 1ch MIC input.

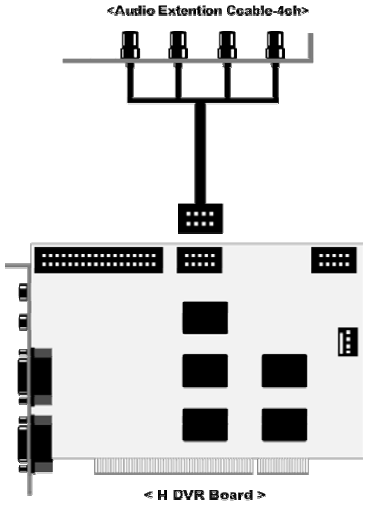
- SP board

SP board supports 2ch MIC input. Please refer to below picture. Actual used MIC input in audio extension cable is 2 ports.



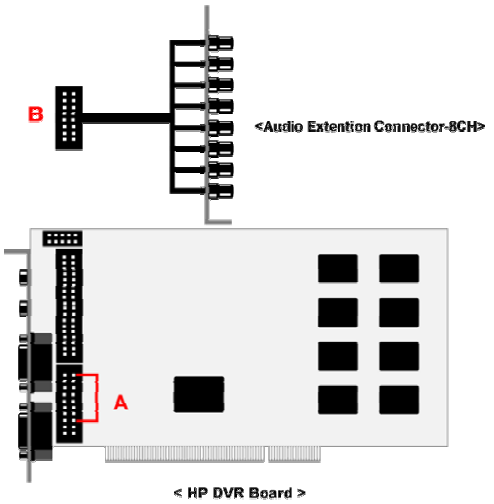
- H board

H board supports 4ch MIC input. Please refer to below picture.



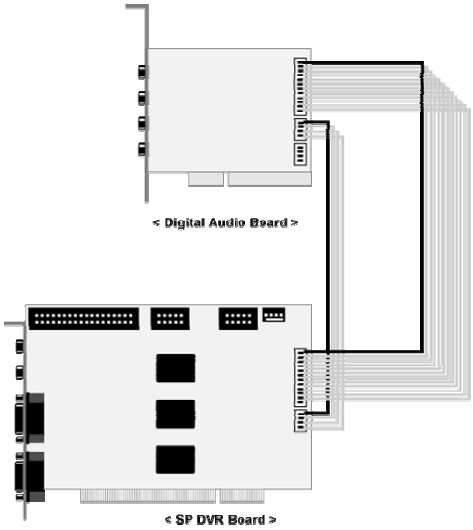
- HP board

HP board supports 8ch MIC input. Like below picture, a part in DVR board connects to B part in audio extension cable.



Digital audio installation

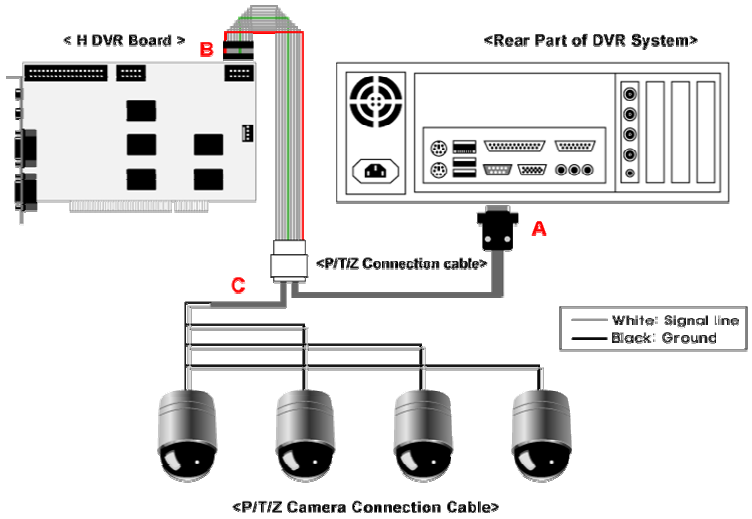
Audio quality of digital audio board is superior to quality of analogue audio cable. You have to purchase digital audio board. Digital audio board is compatible with SP board and Live series board.



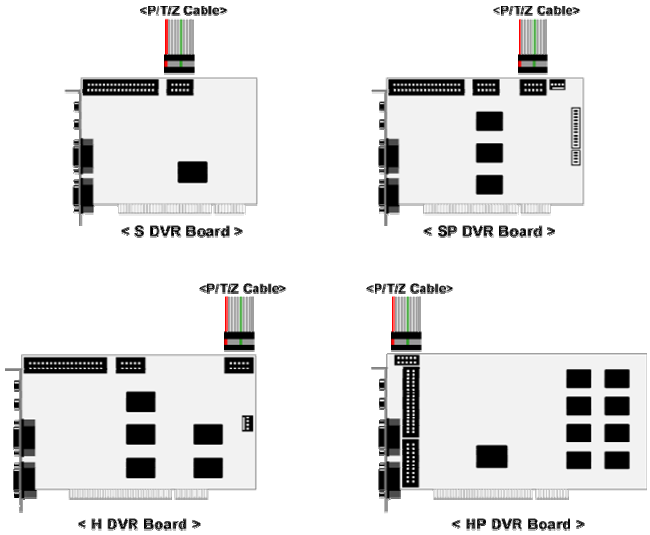
3 P/T/Z Installation

Some cameras support pan/tilt/zoom/focus function. In order to use P/T/Z camera, you need to connect P/T/Z cable.

[A] connecter: Connect P/T/Z cable to COM port of DVR systems
[B] connecter: Connect P/T/Z cable to DVR board.
[C] part: Connect to receiver (camera). When you install a few cameras, you use cable like picture.

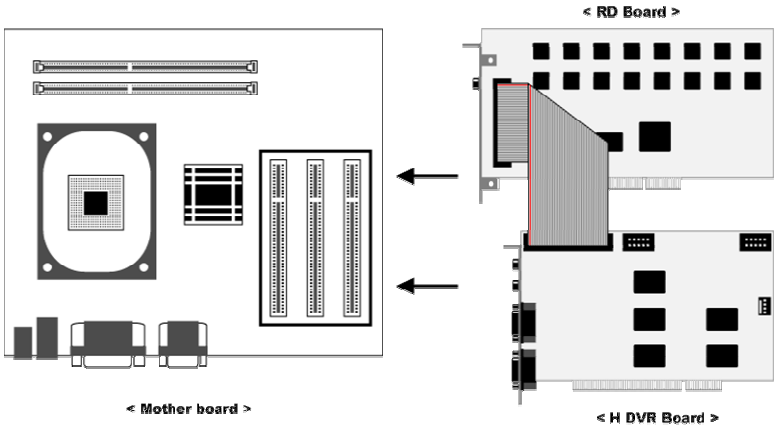


Ref P/T/Z cable Connection for each board.



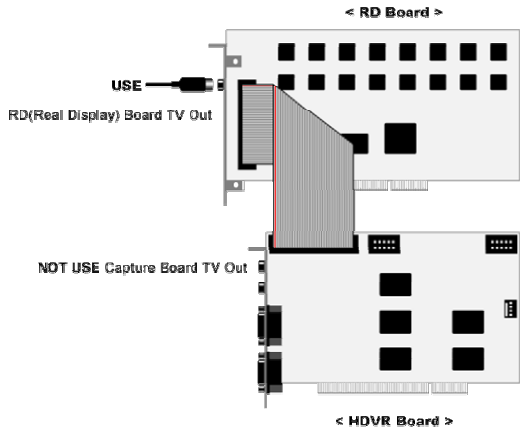
4 RD(Real Display) board installation

When you install RD board with capture board, you are able to view camera image in real-time speed. (30fps display per channel / total 480fps display) You install RD board in empty slot in DVR system. You connect RD board and capture board with IDE cable.



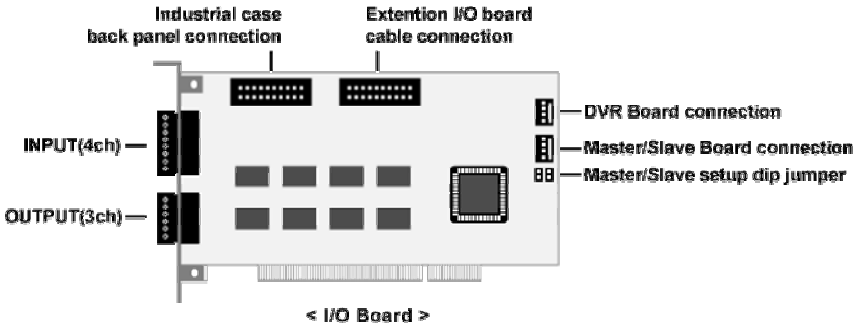
Notice RD board has to be installed S, H, HP board together. (RD board is only displaying board)

Ref How to connection TV out in RD board.
When you use RD board, TV out is connected to TV out port of RD board.



5 I/O board installation

When you install I/O board in DVR system. You are able to connect various sensors and alarms.
I/O board supports total 8 IN / 8 OUT with both extension I/O board and basic 4 IN / 3 OUT. When you connect 2 set I/O board, maximum I/O function is 16 IN / 16 OUT.



Back panel connection port in industrial case.

In case of industrial system with back panel connection, you are able to use I/O IN/OUT separately.

Connection port of I/O extension board cable.

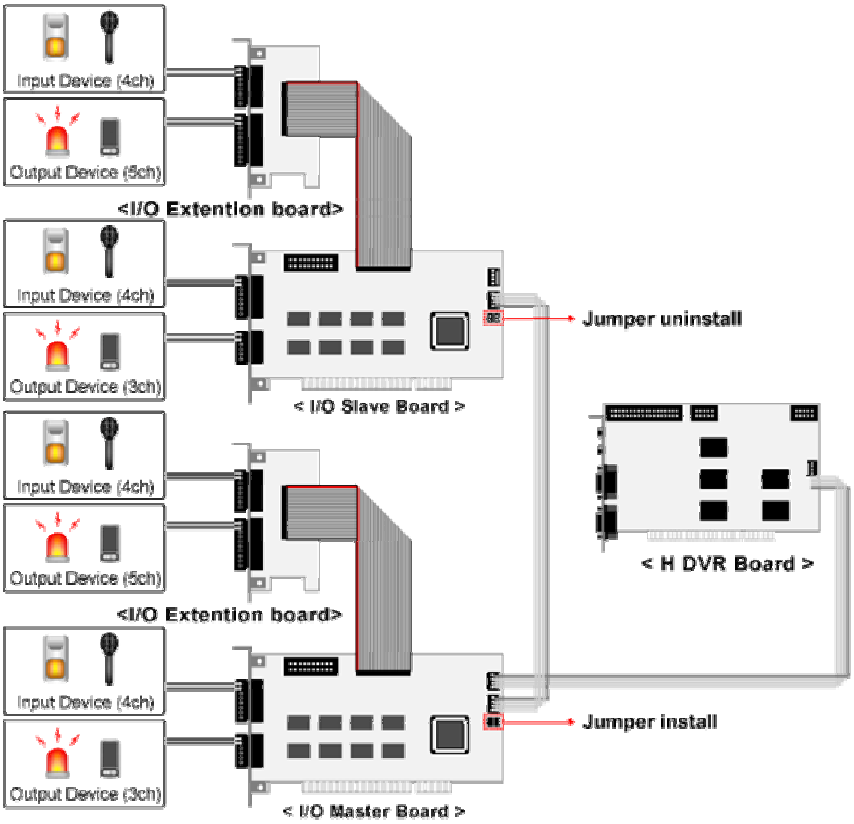
It is connected to I/O extension board.

DVR board connection port

It is connected to DVR board in DVR system.

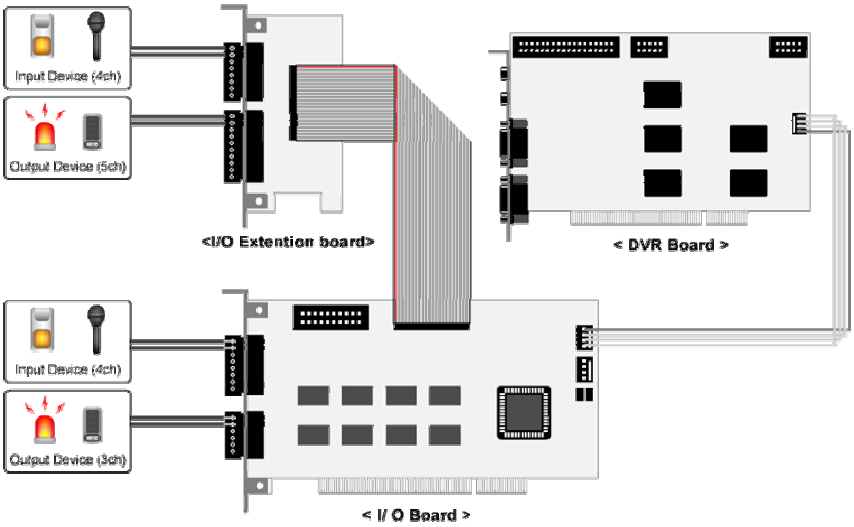
Master/Slave connection port

When you install I/O board (2EA, 16 IN / 16 OUT)



Master/Slave setup dip jumper

It designates Master/Slave part at each board.
(Master: Jumper install / Slave: Jumper uninstall)
E.g. Disconnection between DVR board and I/O board
(Extension board)



Software Installation

Software installation manual introduction

Server
It is software to execute DVR system.
It is fundamental software against other software provides and you have to install it in system.

NetClient
DVR system connects to DVR system at remote site and record transferred image in client system.
It is software which connects to DVR system at remote site through 20408 port and monitors and control.

WebClient
DVR system is able to connect to DVR system at remote site and monitor and control P/T/Z camera in Web (Internet Explorer)
It is software to monitor and control DVR system at remote site in Web. When it is installed in DVR system, user does not need to install additional software to monitor DVR at remote site by installing WebClient installation file automatically through 26540 port after auto downloading.

Notice This is used for Apache Web server.
User has to change 80 port into 26540 port to use WebClient with Apache port change software in CD. Usually, most of communication companies close 80 ports.

Software Installation

You are able to install Server software by using CD-ROM which is provided by us.
Software CD consists of Server Package (Main program, WebClient program, Apache server, Netclient, AVI codec. User manual is also available from S/W CD

1. DVR Server Package Installation

Insert DVR System Plus CD into CD-ROM drive or run DvrSetup.exe file; the following installation screen will appear.

DVR System Installation
Install / Uninstall Server Package
Install / Uninstall Client Package
Install / Uninstall AVI Codec
View Manual Page
Exit
README
* Please update Graphic Driver to latest version before installation of software.
* Please do not re-boot after installation of Apache Web Server.

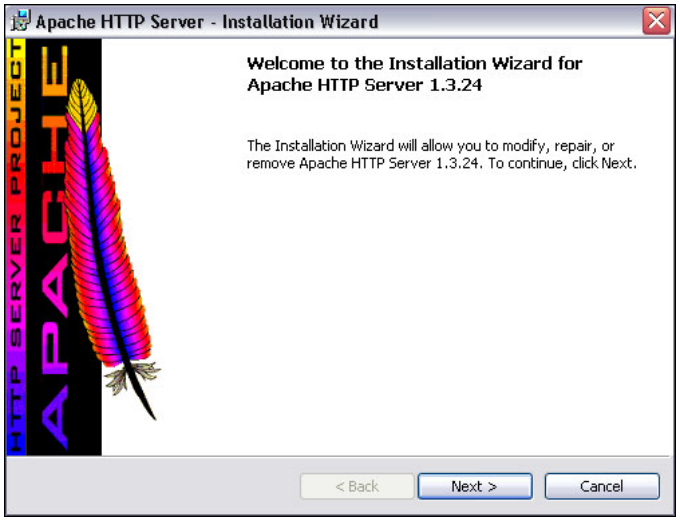
Click the first button, DVR Server package will be proceeded.

Installation step : Web Applet(Apache) -> WebClient -> Server

Web(Apache Web Server) installation

Click Install Server Package button in provided CD, installation will be proceeded.

Installation wizard tool will appear. Click [Next]


Apache HTTP Server - Installation Wizard
HTTP SERVER PROJECT
APACHE
Welcome to the Installation Wizard for Apache HTTP Server 1.3.24
The Installation Wizard will allow you to modify, repair, or remove Apache HTTP Server 1.3.24. To continue, click Next.
< Back
Next >
Cancel

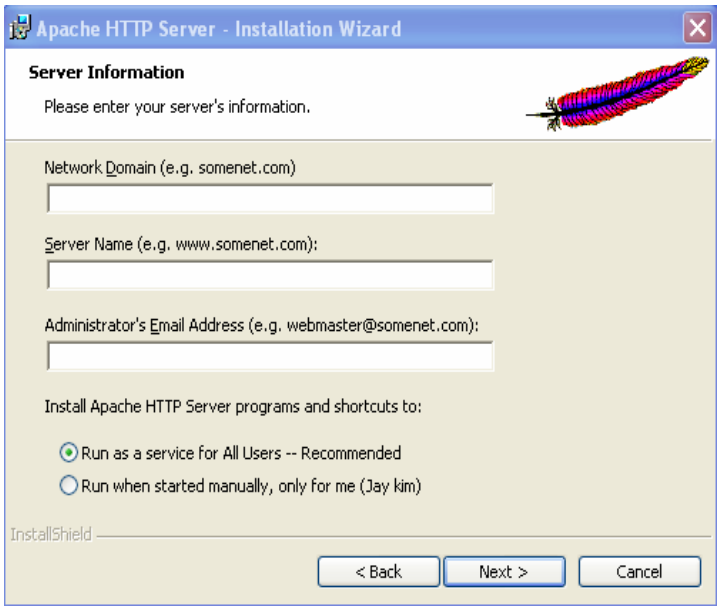
Read the License Agreement and if you agree to the contents, select [I accept…] and click [Next].

Apache HTTP Server - Installation Wizard
License Agreement
Please read the following license agreement carefully.
The Apache Software License, Version 1.1
Copyright (c) 2001 The Apache Software Foundation. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this
I accept the terms in the license agreement
I do not accept the terms in the license agreement
InstallShield
< Back
Next >
Cancel

Click [Next] after checking server information of Apache server.

Apache HTTP Server - Installation Wizard
Read This First
Read this Before Running Apache on Windows.
Apache
Version 1.3 (and up)
What is it?
Apache is an HTTP server, originally designed for Unix systems. This is the version of Apache for Microsoft Windows 2000, NT, 98, and 95 systems. Like the Unix version, it includes many frequently requested new features, and has an API that allows it to be extended to meet users' needs more easily. It also allows limited support for ISAPI extensions.
The Latest Version
Details of the latest version can be found on the Apache HTTP server project page under http://httpd.apache.org/.
InstallShield
< Back
Next >
Cancel

Insert Network Domain, Server Name, Administrator's E-mail Address.
In case there is not any specific info, please insert as below.
Network Domain: somenet.com
Server Name: www.somenet.com
Administrator's Email Address: admin@somenet.com
Select [Run as a service for All Users – Recommended] and click [Next]

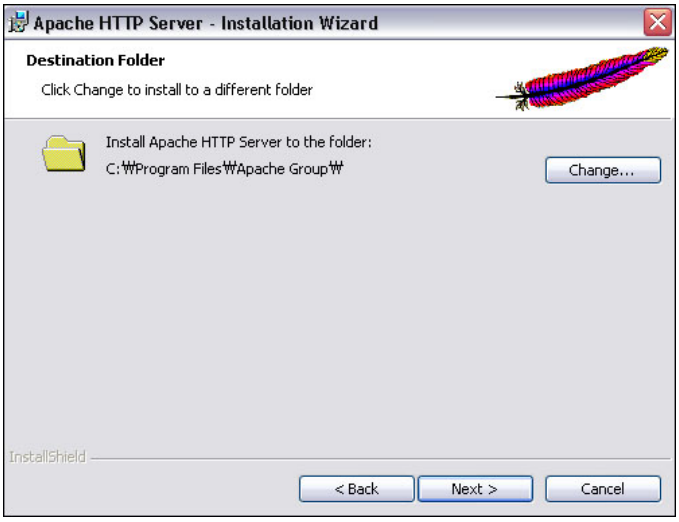

Apache HTTP Server - Installation Wizard
Server Information
Please enter your server's information.
Network Domain (e.g. somenet.com)
Server Name (e.g. www.somenet.com):
Administrator's Email Address (e.g. webmaster@somenet.com):
Install Apache HTTP Server programs and shortcuts to:
Run as a service for All Users -- Recommended
Run when started manually, only for me (Jay kim)
InstallShield
< Back
Next >
Cancel

Select Setup Type as [Complete] and click [Next]

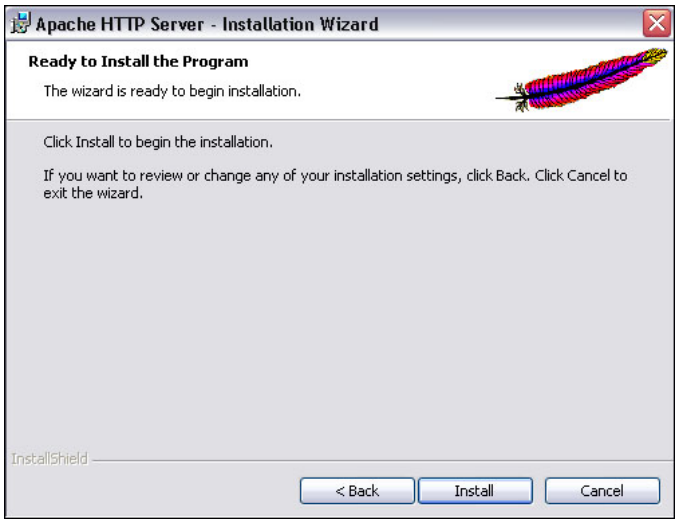
Apache HTTP Server - Installation Wizard
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

Click [Next] without change of setting.

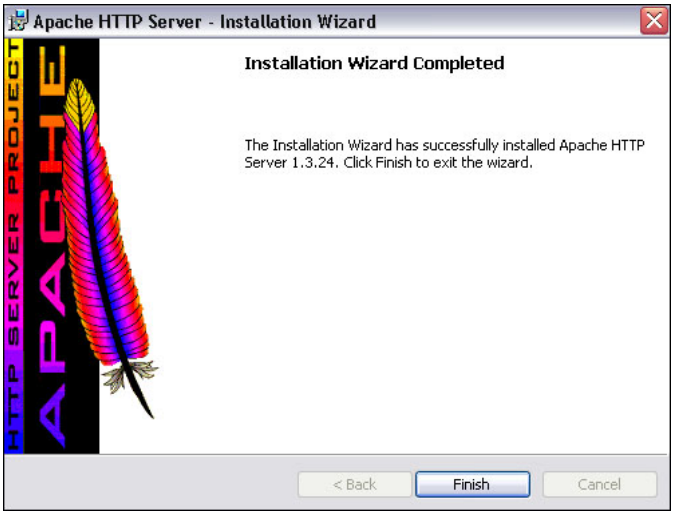
Notice Please do not change the directory



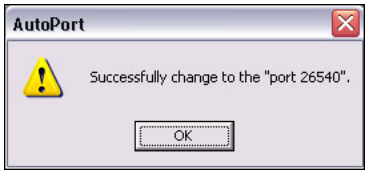
After the setting is finished, click [Install] and start installation.


Apache HTTP Server - Installation Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

After the installation is done, click [Finish] to end the installation program.


Apache HTTP Server - Installation Wizard
HTTP SERVER PROJECT
APACHE
Installation Wizard Completed
The Installation Wizard has successfully installed Apache HTTP Server 1.3.24. Click Finish to exit the wizard.
< Back
Finish
Cancel

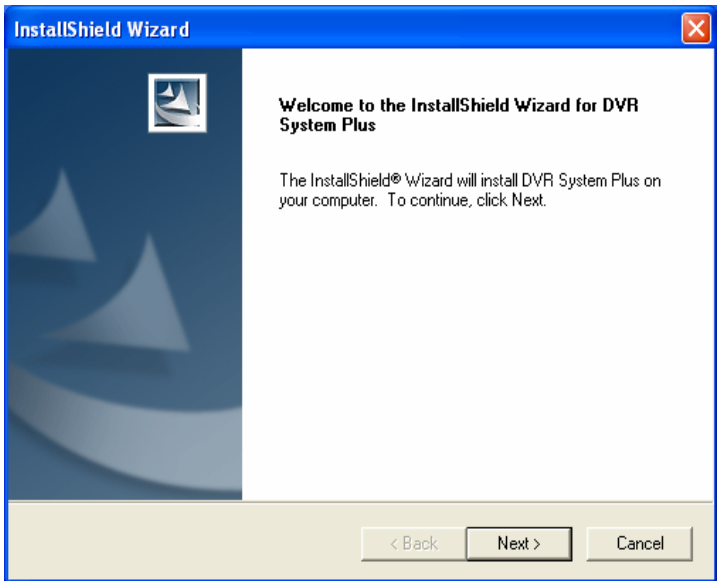
Confirm whether the apache server port has been changed to 26540 after the apache installation is finished.



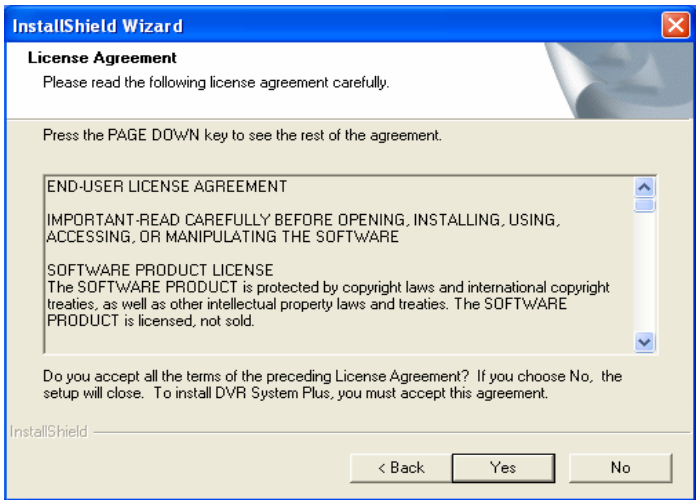
Notice Default port is 80 for apache web server. If the port is not changed after apache web server is installed, you would not be able to use WebClient program from external environment. Therefore port must be changed.

WebClient Installation

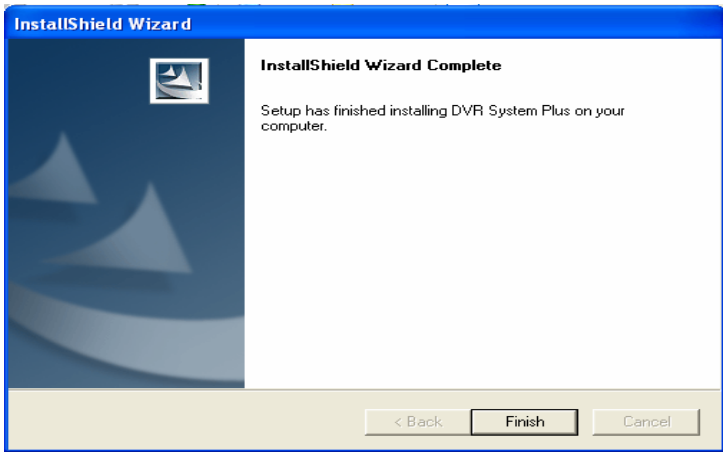
After the Installation Wizard Tool is appeared, click [Next].


InstallShield Wizard
Welcome to the InstallShield Wizard for DVR System Plus
The InstallShield® Wizard will install DVR System Plus on your computer. To continue, click Next.
< Back
Next >
Cancel

Check the contents of License Agreement; if you agree to the contents, click [Yes].

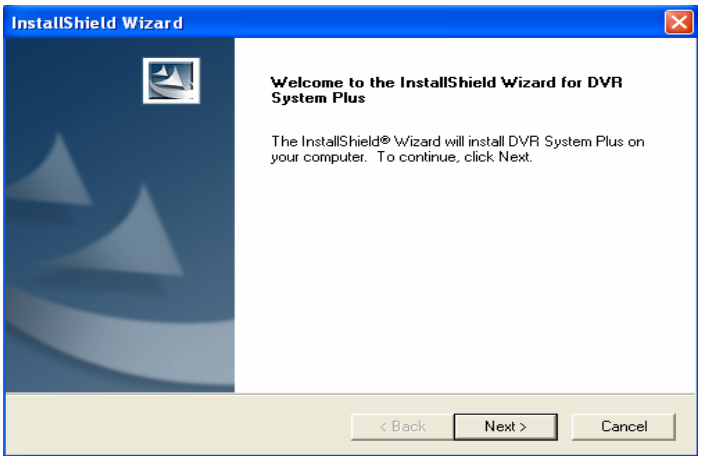

InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
END-USER LICENSE AGREEMENT
IMPORTANT-READ CAREFULLY BEFORE OPENING, INSTALLING, USING, ACCESSING, OR MANIPULATING THE SOFTWARE
SOFTWARE PRODUCT LICENSE
The SOFTWARE PRODUCT is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The SOFTWARE PRODUCT is licensed, not sold.
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install DVR System Plus, you must accept this agreement.
InstallShield
< Back
Yes
No

After the installation is done, click [Finish].

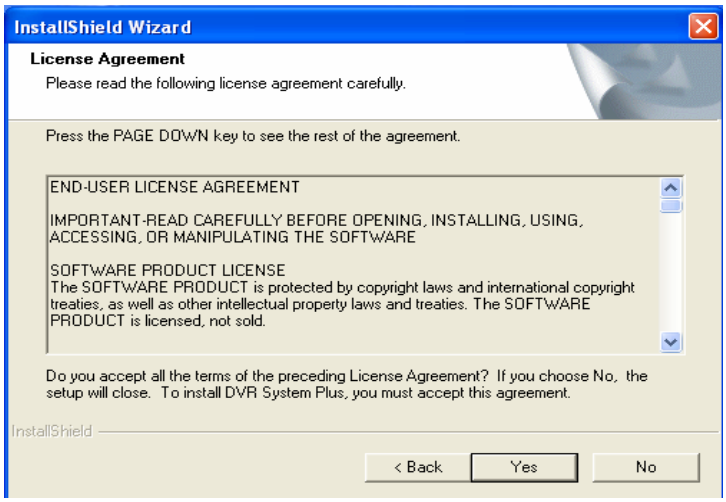


Server Installation

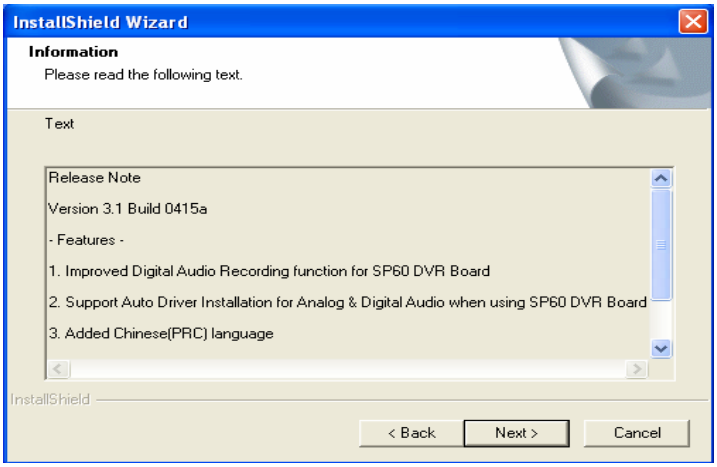
After Installation Wizard Tool is appeared, click [Next].


InstallShield Wizard
Welcome to the InstallShield Wizard for DVR System Plus
The InstallShield® Wizard will install DVR System Plus on your computer. To continue, click Next.
< Back
Next >
Cancel

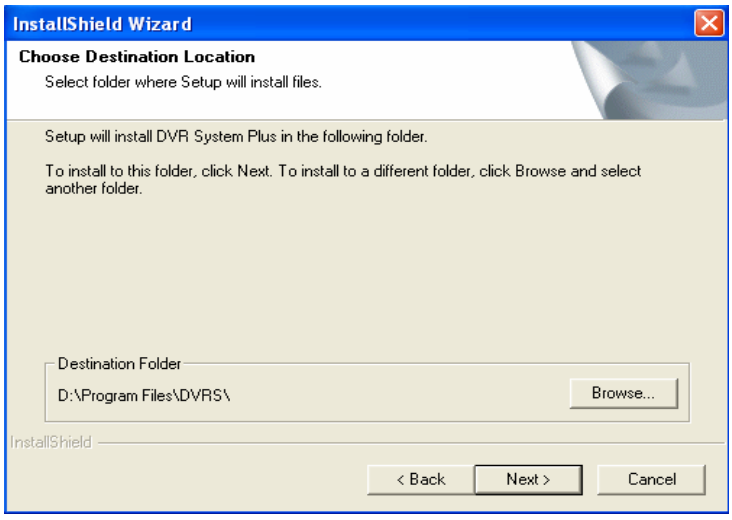
Check the details of License Agreement; if you agree to the contents, click [Yes].


InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
END-USER LICENSE AGREEMENT
IMPORTANT-READ CAREFULLY BEFORE OPENING, INSTALLING, USING, ACCESSING, OR MANIPULATING THE SOFTWARE
SOFTWARE PRODUCT LICENSE
The SOFTWARE PRODUCT is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The SOFTWARE PRODUCT is licensed, not sold.
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install DVR System Plus, you must accept this agreement.
InstallShield
< Back
Yes
No

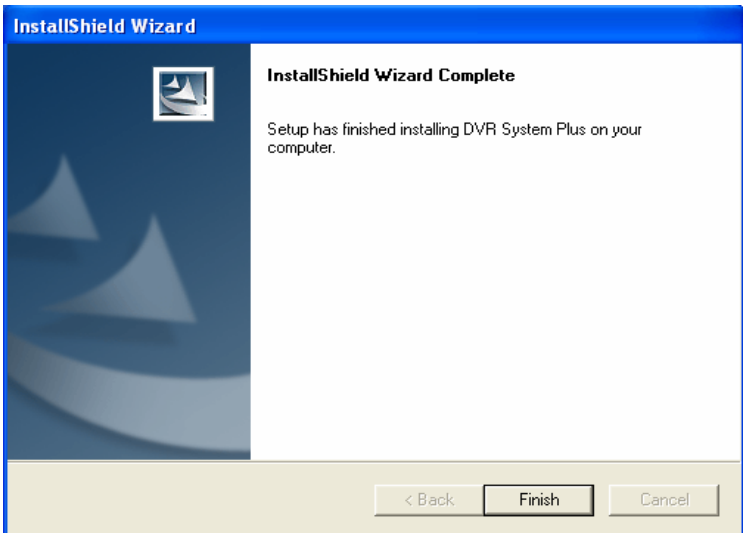
Check the added or fixed functions of currently installed DVR Server version and click [Next].


InstallShield Wizard
Information
Please read the following text.
Text
Release Note
Version 3.1 Build 0415a
- Features -
1. Improved Digital Audio Recording function for SP60 DVR Board
2. Support Auto Driver Installation for Analog & Digital Audio when using SP60 DVR Board
3. Added Chinese(PRC) language
InstallShield
< Back
Next >
Cancel

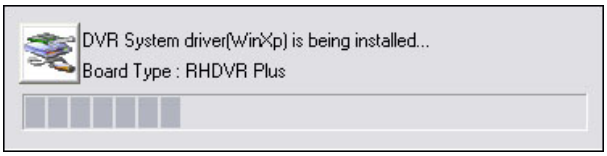
After choosing [Destination Folder] for installation, click [Next].


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install DVR System Plus in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
D:\Program Files\DVRS\
Browse...
InstallShield
< Back
Next >
Cancel

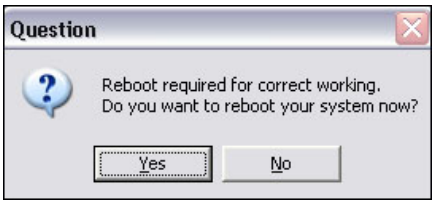
After the installation is done, click [Finish].



Driver Installation: Wizard automatically installs drivers according to each board type.



Please reboot PC after all the installation is finished.

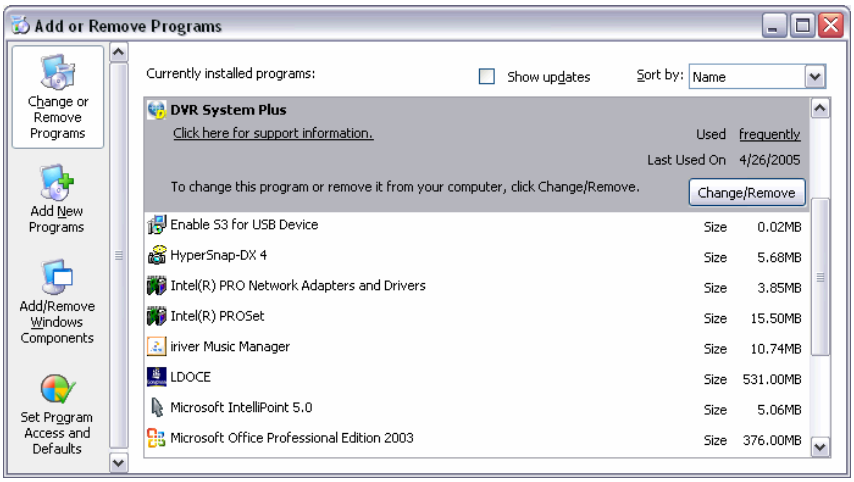


DVR System Plus Uninstallation

In case of Up-grade DVR System Plus program in new version, or there is problem in setup version, please remove by method as below.

Notice To keep stability of DVR system, DVR System Plus and other program need to be deleted and removed certainly as below
click control panel after clicking beginning button of windows.
(It can be in different position according to kind of OS)
Click [Add/Remove Program] .

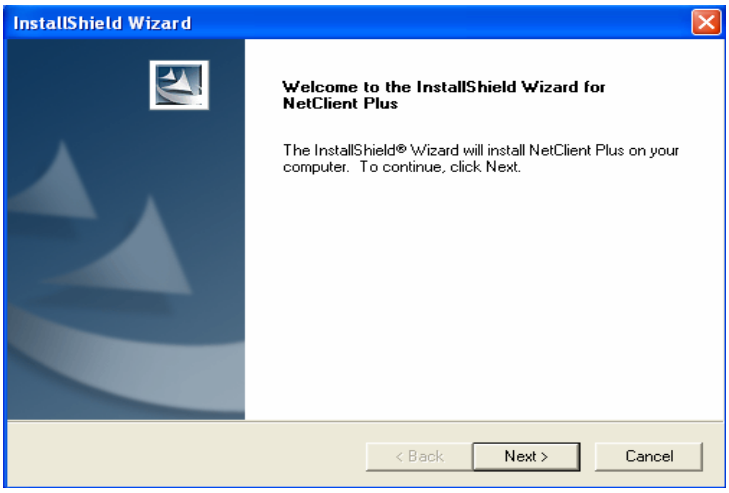
After choosing DVR System Plus by mouse, click [Add/Remove Program]


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
DVR System Plus
Click here for support information.
Used frequently
Last Used On 4/26/2005
To change this program or remove it from your computer, click Change/Remove.
Change/Remove
Enable S3 for USB Device Size 0.02MB
HyperSnap-DX 4 Size 5.68MB
Intel(R) PRO Network Adapters and Drivers Size 3.85MB
Intel(R) PROSet Size 15.50MB
iriver Music Manager Size 10.74MB
LDOCE Size 531.00MB
Microsoft IntelliPoint 5.0 Size 5.06MB
Microsoft Office Professional Edition 2003 Size 376.00MB

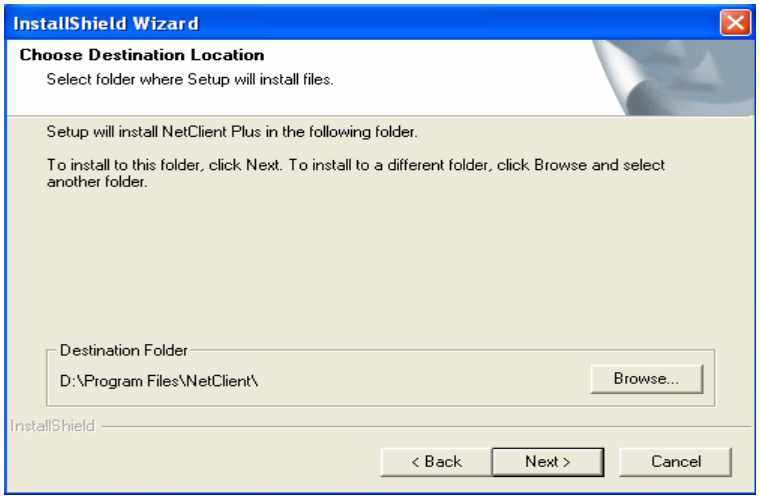
2. NetClient Installation

If click Install Client Package button of setup program in offered CD, NetClient setup will be proceeded.

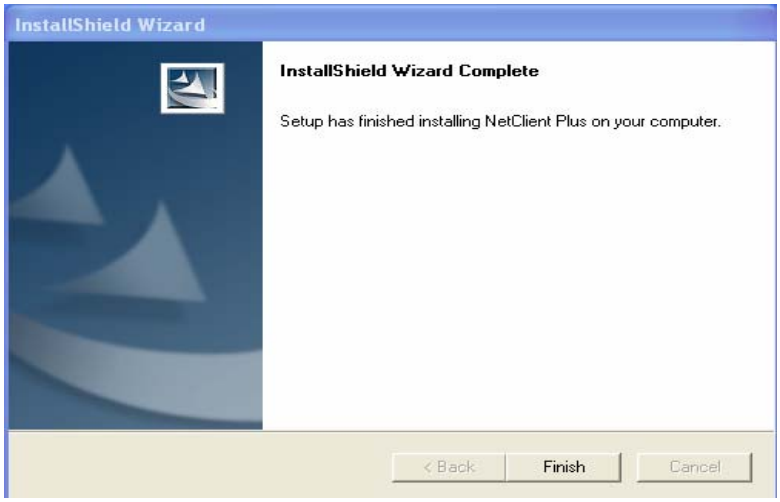
After Installation Wizard Tool is appeared, click [Next].


InstallShield Wizard
Welcome to the InstallShield Wizard for NetClient Plus
The InstallShield® Wizard will install NetClient Plus on your computer. To continue, click Next.
< Back
Next >
Cancel

After choosing [Destination Folder] for installation, click [Next].


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install NetClient Plus in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
D:\Program Files\NetClient\
Browse...
InstallShield
< Back
Next >
Cancel

After the installation is done, click [Finish].



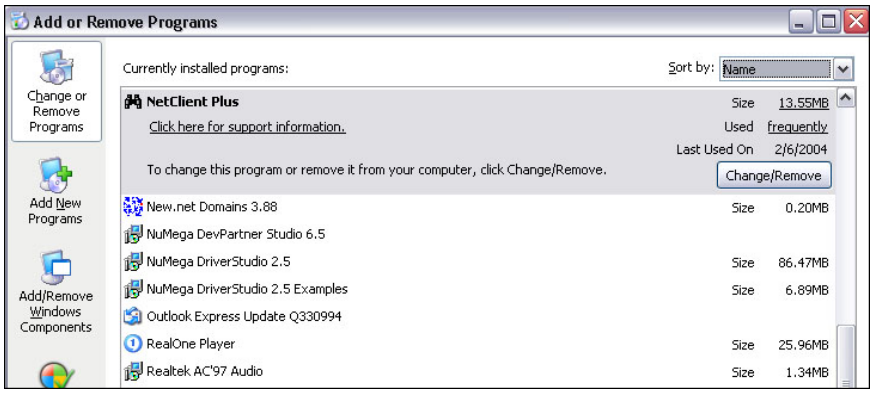
NetClient Plus Uninstallation

In case of Up-grade NetClient Plus in new version, or there is problem in setup version, please remove by method as below.

Notice To keep stability of DVR system, NetClient Plus and other program need to be deleted and removed certainly as below

Click control panel after click [beginning] button of windows.
(It can be in different position according to kind of OS)
Click [Add/Remove Program]

After choosing NetClient Plus by mouse, click [Add/Remove Program]

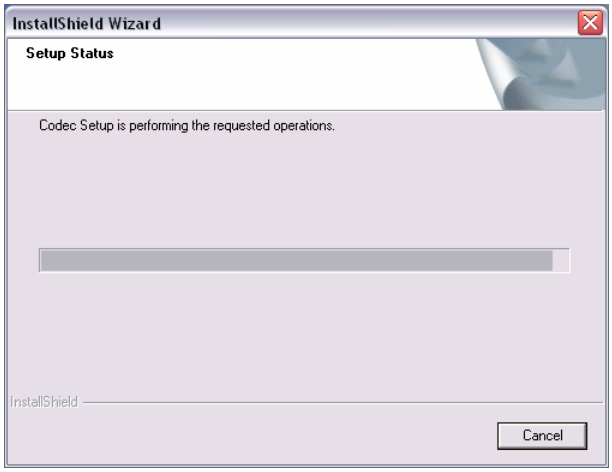

Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Currently installed programs:
Sort by: Name
NetClient Plus
Size 13.55MB
Click here for support information.
Used frequently
Last Used On 2/6/2004
To change this program or remove it from your computer, click Change/Remove.
Change/Remove
New.net Domains 3.88 Size 0.20MB
NuMega DevPartner Studio 6.5
NuMega DriverStudio 2.5 Size 86.47MB
NuMega DriverStudio 2.5 Examples Size 6.89MB
Outlook Express Update Q330994
RealOne Player Size 25.96MB
Realtek AC'97 Audio Size 1.34MB

3. AVI Codec Installation

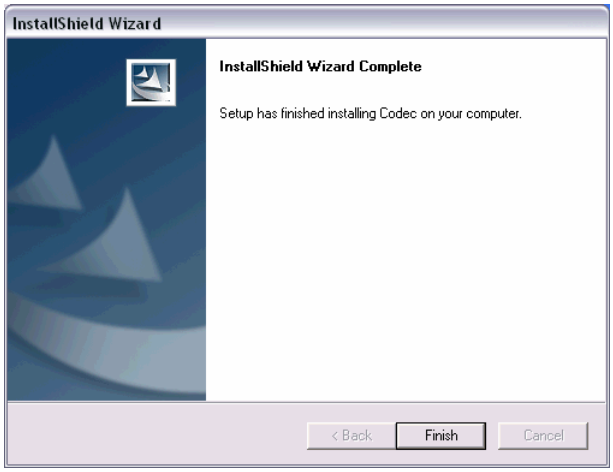
When wish to watch image that backed up by AVI Backup Manager in DVR system or other computer, user can see though setup our AVI Codec certainly.

If click Install AVI Codec button, AVI Codec setup will be proceeded.

AVI Codec Installation

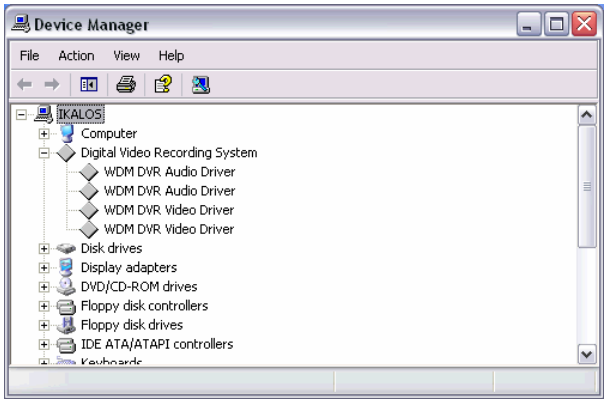


After the installation is finished, click [Finish].



Ref: SP Digital Audio Installation

In case of using digital audio in SP60 DVR system with only Windows 2000 OS, Digital Audio Driver must be setup manually.
Clicks the [Beginning] button-[Control panel]-[System-Hardware]-[Device administrator] and executes device administrator.

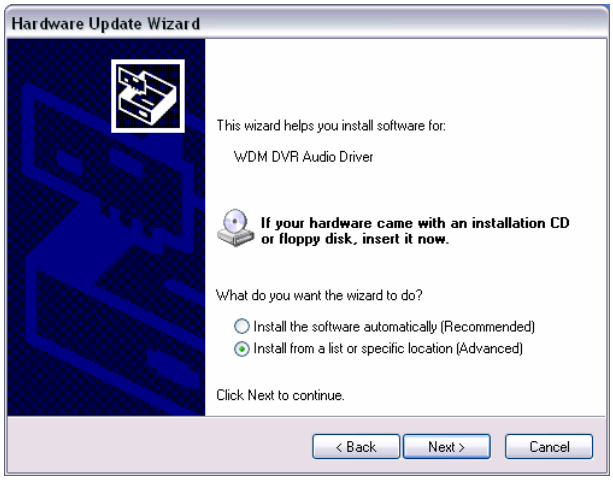


After choosing [WDM DVR Audio Driver] by mouse, choose the [Drive Up-date] and click right button

Ref If see the screen as below, choose the [Yes, this time only] and then click [Next] button

Hardware Update Wizard
Welcome to the Hardware Update Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

After choose [Advanced setting] at list or specification position, click [Next] button.

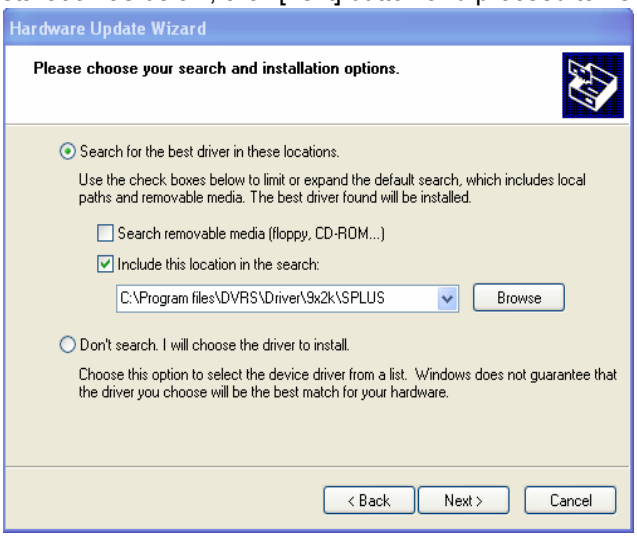

Hardware Update Wizard
This wizard helps you install software for:
WDM DVR Audio Driver
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

After select [Driver search (S)] that is the most suitable at this position, select [when search, includes next position] and specifies path as follows

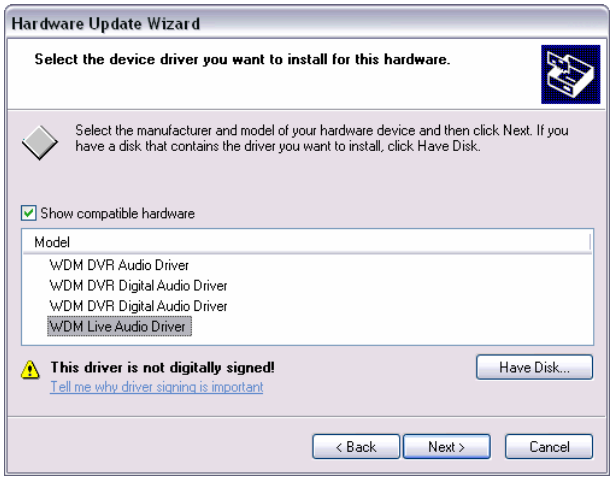
C:\Program Files\DVRS\Driver\9x2k\SPLUS

Click [Search] button

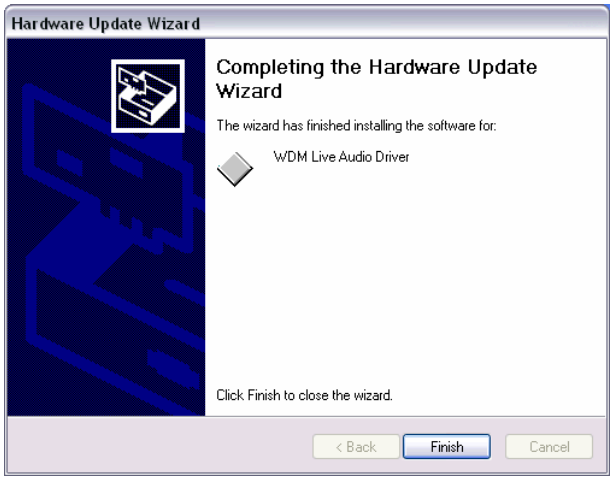
If finish installation as below, click [next] button and proceed to next step


Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
C:\Program files\DVRS\Driver\9x2k\SPLUS
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

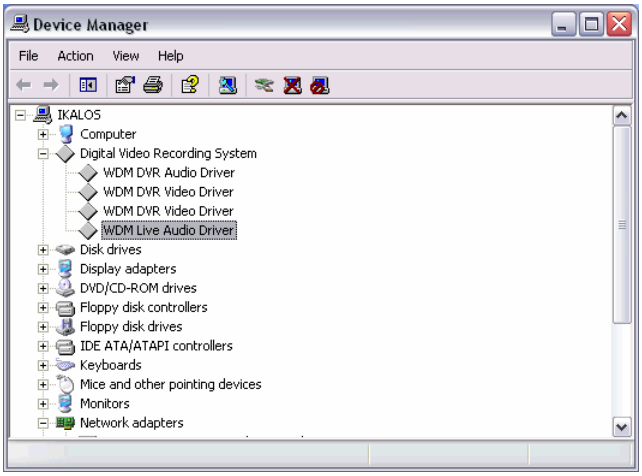
Choose [WDM LIVE Audio Driver] and then click [Next] button


Hardware Update Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Show compatible hardware
Model
WDM DVR Audio Driver
WDM DVR Digital Audio Driver
WDM DVR Digital Audio Driver
WDM Live Audio Driver
This driver is not digitally signed!
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

If the information that Digital Audio Driver is placed normally,
Click [Finish] button



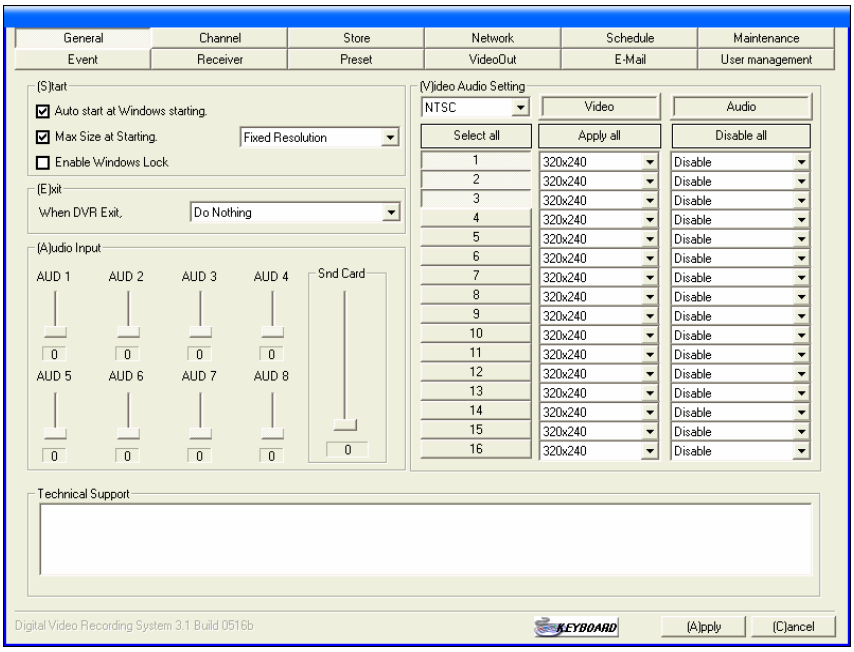
After finishing installation, if confirm [device administrator] again, it will be seen as below
Progress remaining [WDM DVR Audio Driver] again in same process.



If digital audio driver installation is finished normally, [WDM LIVE Audio Driver] item as following is registered 2pcs.

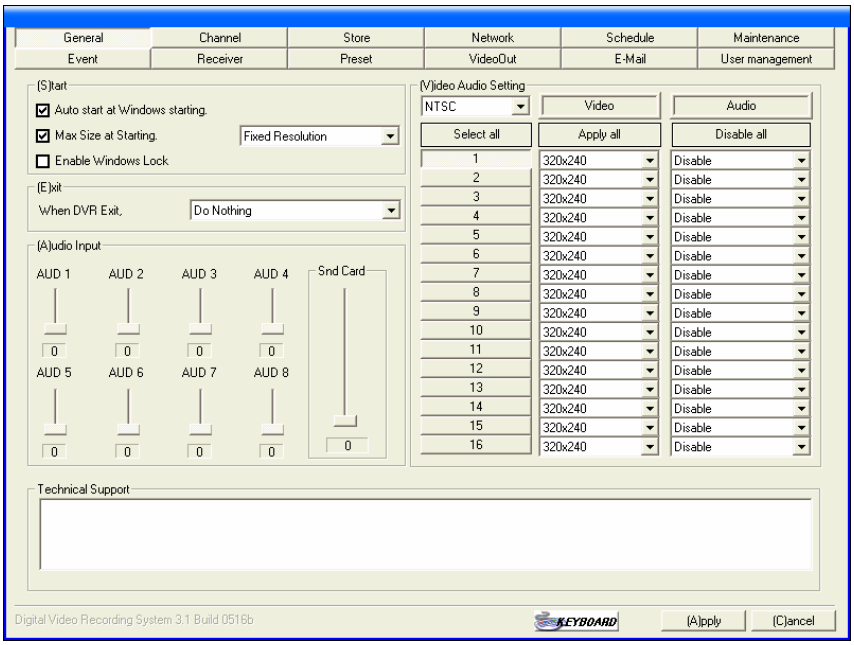
Reboot the computer to operate driver normally.

After rebooting computer, confirm [Configuration>General] running DVR program
If it is installed normally, confirm that Audio Device is placed from 1to 4 as below.



If use audio channel from1 to 4, and channel 5 is used MIC monad of audio card, install audio channel as following.

The case of below is to just use video channel from 1 to 5
When use video channel until 1-5 below occasion,
Click [apply] button and completes configuration.



User Manual

DVR System Plus is the main program which takes part as the most important role in DVR System, and acts as the Server role for other additionally supported program.

DVR System Plus supports maximum 16 video channels and 1~9 audio channels according to board. Low resolution(less storage) and high resolution (more storage) for each channel is supported and 9 audio channels can be adjusted freely. By various split-screen display modes and color adjustment, optimized image can be realized according to the environment.

Existing analog CCTV equipments such as Sensor & Alarm, P/T/Z camera, Video Out, etc. are perfectly compatible. Image or E-mail can be transmitted over the network for user's to observe from remote site without having the inconvenience to stand in front of the DVR System. Max. 30 user accounts can be created to grant authorization by user-level, and real time monitoring is available by connection over the network.

	Minimum Requirement
CPU	Intel Celeron™ 1.7 GHz or higher
RAM	256 MB or higher
HDD	80 GB 7200rpm or higher
Motherboard	Intel i845 Chipset or higher
VGA	Refer to 115page
OS	Windows 2000™, Windows XP™ (Windows 98™ and ME is not supported.)
Direct X	DirectX 8.1 or higher
Min. Required Space when installation	30 MB
Others	Graphic Driver and Sound Card are required as compulsory.

Surveillance Mode

1 **Control Panel**

2 **Screen Partition Panel**

3 **P/T/Z Control Panel**

4 **Channel Type Selection Panel**

5 **Real Time Audio Volume Control Panel**

6 **DVR Status Information Panel**

1 Control Panel

User's can run search program, record images, open configuration screen, etc. from control panel.

Search Button: You can run search program.

Configuration Button: You can open configuration mode to change system setup.

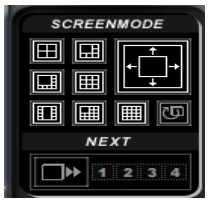
Lock Button: Lock function is supported to prevent program setup changes or search program run.

REC Button & All Button:

To record specific channels – Click left mouse button on specific channel and click REC button.

To record all channels – Click ALL buttons and click REC button.

2 Screen Partition Panel



You can select 7 types of various display modes and use full screen mode, auto-switching display, etc. to setup the screens to change automatically.

3 P/T/Z Control Panel

You can control the cameras if P/T/Z camera is connected to the DVR System. First use left mouse button to click on the channel you wish to control, and use the buttons in P/T/Z Control Panel to support various functions.

4 Channel Type Selection Panel

Click a specific channel to enlarge the screen.

5 Real-Time Audio Volume Control Panel

If audio input setup is done by each channel from [Configuration] - [General], you can use audio volume control bar to control the real-time audio volume.

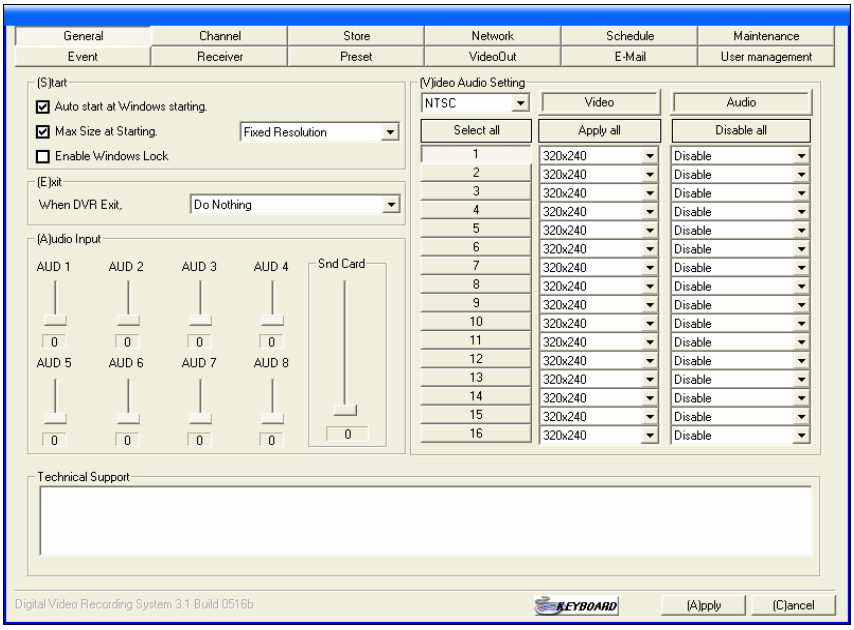
6 DVR Status Information Panel

Indicates the number of channels connected by Internet(TCP) or Modem (MODEM). If there are no free space available in recording HDD, Disk Full will be indicated in red color.

Configuration Setup

Configuration is consisted of detailed items characterized by functional / applicable aspect. Video resolution, image quality, motion detection recording, digital input/output, schedule, P/T/Z receiver protocol, network etc. setup are available.

General



① **Start Setup**

Auto Start at Windows starting: DVR program automatically runs when DVR system is turned on.

② **Max Size at Starting**

DVR Program is setup as full screen to prevent use of other programs.

③ **Exit Setup**

When shutting down DVR System Plus program, setup to shut down DVR System Plus program only or shut down DVR System power or auto-reboot system.

④ **Audio Setup**

Setup the gain of Audio Input. AUD1 ~ AUD8 is gain control for Audio channel supported from DVR Board or Digital Audio Board. Set the gain to minimum (0) when use of amplified mic. (E.g.: model with built-in amplifier circuit)
Sound Card controls the Sound Card volume for audio input.

⑤ **Video / Audio Setup**

Input Camera Type Setup

NTSC: Korea, USA, Japan, Australia (some region), North America (some region)

PAL: Other regions excluding NTSC (China, Europe, South America, etc.)

Channel Selection

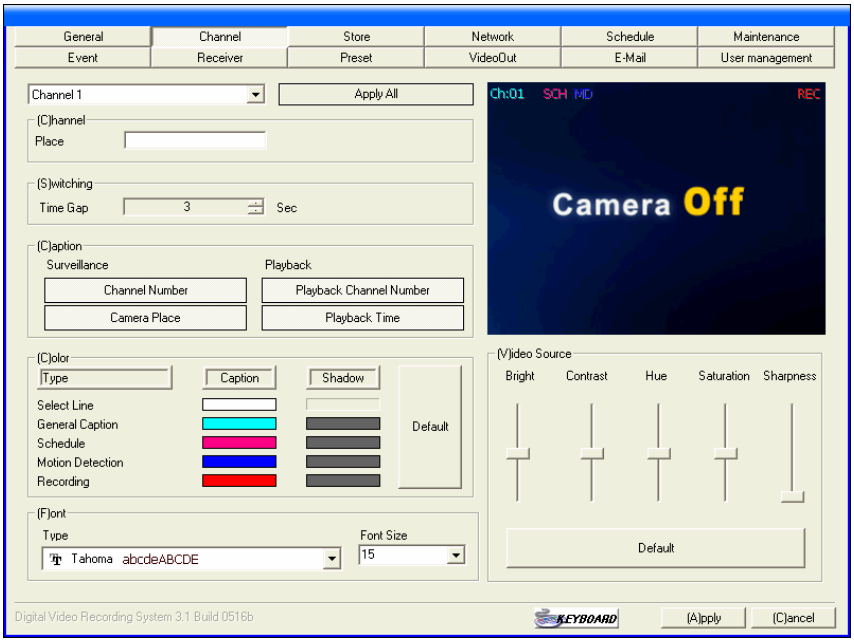
Select the channel for surveillance. Do not select the camera which is not connected to DVR System.

Video Resolution Setup

Setup the recording resolution for video images. There is standard resolution and high resolution.

Ref NTSC – 320X240, 640X480 / PAL – 360X288, 720X576

Channel Configuration



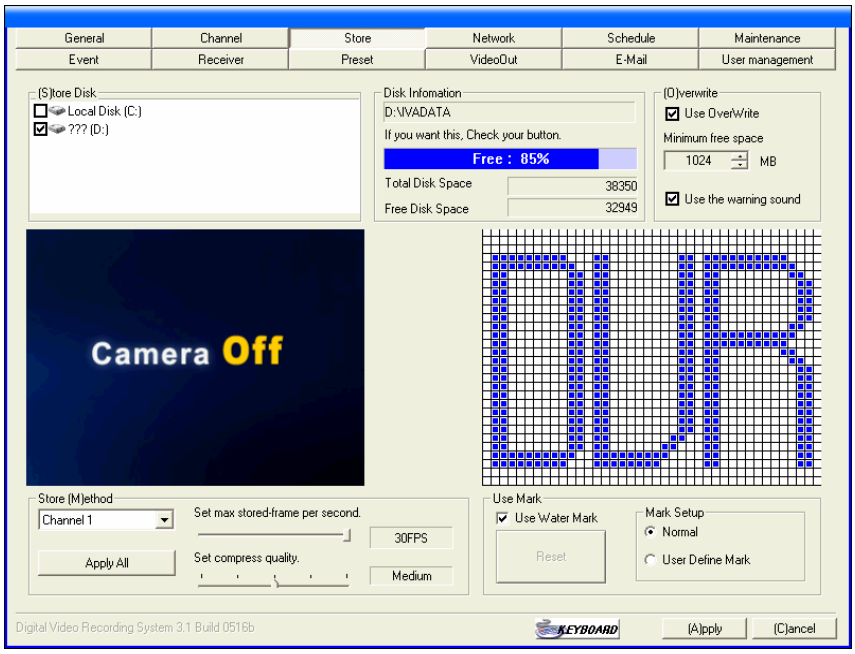
① **Channel Caption Input**
Insert the description of the area that is under camera surveillance.

② **Caption Setup**
Surveillance Mode
Setup to indicate the channel number and surveillance area on the video images from main program.
Search Mode
Setup to indicate the channel number and recording time on the video images from search program.

③ **Caption Font and Color Setup**
You can setup caption font & color of caption according to channel number, camera surveillance area recorded time etc.

④ **Video Source**
You can setup brightness, contrast, hue, saturation and sharpness to optimize video quality.

Store Configuration



① **Store Disk**
Indicates HDD which is installed to DVR system. (Movable disk is not included.)
(Check(√) HDD to use as recording device.)

Notice In case camera image is stored in hard-disk which has operating system, if hard-disk will be full, system can be shut down or repeat rebooting.

② **Disk Information**
Indicates selected HDD information from Store Disk.

③ **Overwrite**
The oldest image data will be erased and new image data will be recorded when the free HDD space is lesser than the minimum free space (Default: 1024 MB).

Notice You can use the HDD with no shortage in space if you use overwrite function. However this means that the oldest data will be automatically erased. Therefore it is recommended to backup important data in advance by using Backup Manager Program for your preservation purpose.

④ **Recording Quality and Recording Frame Rate setup**

Max. recording frame rate and image quality can be setup by each channel.

Ref Recording size of 1 frame by image quality and resolution is as below.

Image Quality	Resolution	Recording Size(KB)
Low	Low Resolution	2.5 KB
Low	High Resolution	6.0 KB
Medium	Low Resolution	3.7 KB
Medium	High Resolution	10.0 KB
High	Low Resolution	5.0 KB
High	High Resolution	15.0KB

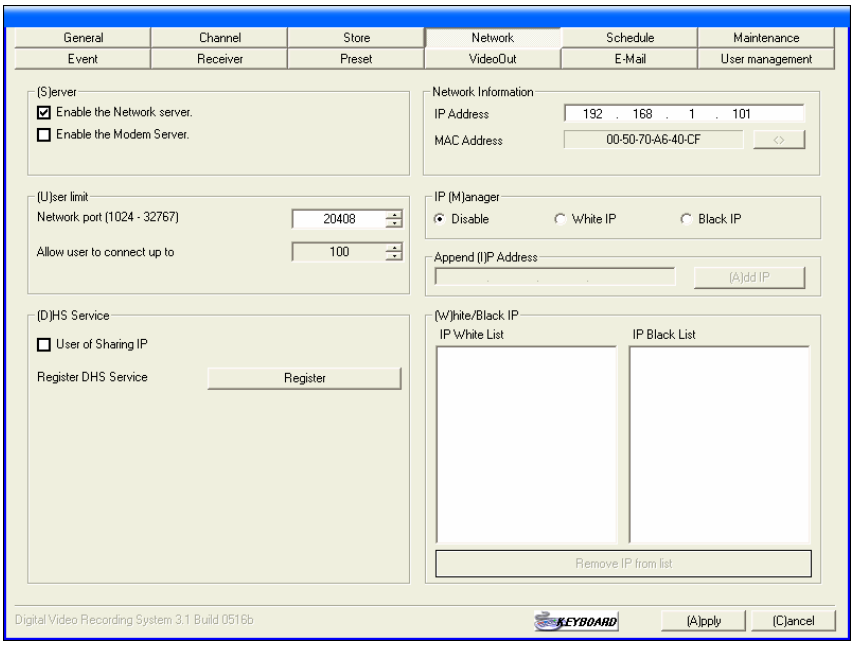
⑤ **Watermark**

Image tampering can be prevented by inserting watermark in every frame.

Normal: Watermark by the form of DVR will be inserted.

User Define Mark: Any type of watermark can be inserted by designing your own.

Network Configuration



① **Server function setup**

Enable TCP/IP server

This enables the system to act as a server for remote surveillance through internet connection. Remote surveillance using Client program and Web Browser is available when private line is used to connect to internet.

Enable the Modem Server

This enables the system to act as a server for remote surveillance through PSTN network. (General modem using telephone line) Remote surveillance through Client program is available when modem is installed in the system to connect PSTN network. Please notify remote surveillance by Web Browser is not available.

② **Network Information**

You can check the system IP address & MAC address.

Ref It is likely that the DVR System is using dynamic IP if the IP is frequently changed without noticing or when DVR System is rebooted. Our DHS Service is recommended for dynamic IP users who connected to DVR System for remote surveillance.

③ **User Limit**

Network connection port
You can change the connection port for remote surveillance function. (20408 port is setup as basic.).
Max. Connection no
Maximum number of connection to the DVR System for remote surveillance function can be limited.
User of Sharing IP
Use this option when network is connected by internet router to DVR system.

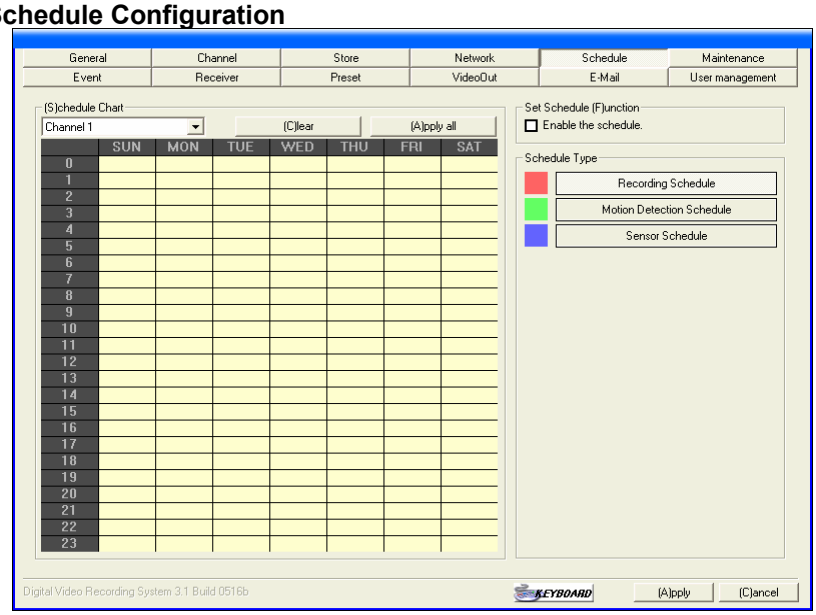
④ **IP Manager Setup**

Remote surveillance for specific IP can be enabled or disabled.

⑤ **Dynamic IP ID authentication & registration**

Insert the ID you have registered to our DHS Service and receive authentication. (Refer to 114p)

Schedule Configuration



① **Schedule Chart**

You can setup the schedule of each channel using the left mouse button click or drag.

You can remove the schedule by using right mouse button click or drag.

Clear: Schedule setup of current channel will be removed.

Apply All: Schedule setup of current channel will be applied to all channels.

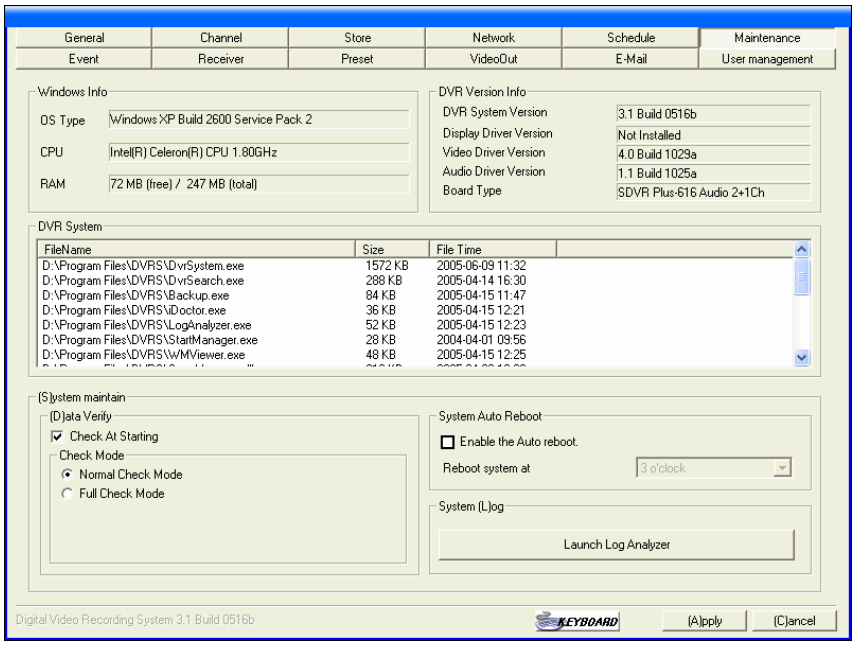
② **Set Schedule Function**

Schedule will be enabled only when the check box is initialized.

③ **Schedule Type**

After selecting from the 3 schedule types, use your mouse to setup the schedule in schedule chart.

Maintenance configuration



① **Windows Info**
You can check the Windows and system information of DVR System.

② **DVR Version Info**
You can check the DVR System's each version and board type.

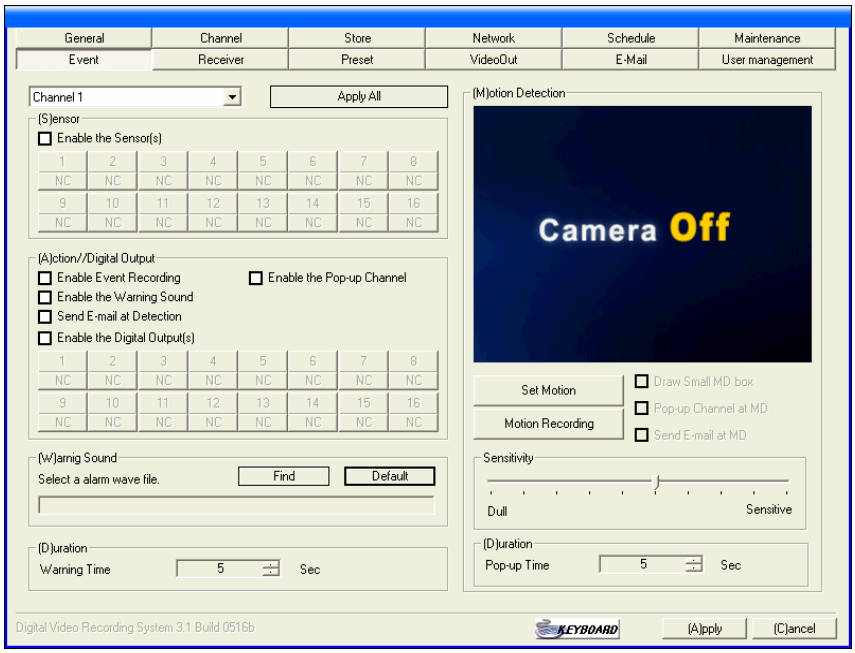
③ **DVR System**
You can check the version and size of DVR System Plus program.

④ **System Maintain**
This is a function which checks the DVR System & video data files for any errors when starting DVR System Plus program.
Normal Check Mode: This checks for video data index and program files.
Full Check Mode: System integrity is added from the normal check mode so the duration time can be slow.

⑤ **System Auto Reboot**
You can setup to re-boot DVR System regularly.
This is recommended for stable Windows operation and data verification.

⑥ **System Log-** You can run system log viewer.

Event Recording Setup



① **Sensor**
You can use by clicking enable the sensors. Click to initialize the installed sensor of each channel and select sensor type.
Ref Sensor Type
NO (Normal Open)
NO type sensor will be closed when there is detection. You do not need to setup additionally from our setup configuration.
NC (Normal Close)
NC type sensor will be opened when there is detection. You need to initialize by clicking the NC button below the sensor number button.

② **Action / Digital Output**
You can setup the automatic action which DVR will carry out when sensor is triggered.
Enable the Event Recording
You can record the channel for [Duration: setup from ⑤] when sensor is triggered.
Enable the Warning Sound
Previously setup wave file will be run from [Warning Sound: setup from ④].
Send E-mail at Detection
Still image will be transmitted to the e-mail address which can be setup from [Configuration>E-mail] when sensor is triggered.

③ **Enable the Digital Output**
Various output devices (warning light, siren, warning speaker, etc.) will be activated when sensor is triggered.

④ **Warning Sound**
You can freely setup the warning sound that will be activated when sensor is triggered.

⑤ **Duration**
You can setup the duration time of warning sound or recording when sensor is triggered. For example if you setup 10sec, the DVR will record and make warning sound for 10sec.

⑥ **Motion Detection**
This function will be activated when there is motion detection in specific area of image.
You can either record or send still image by e-mail.
Detection Area Setup
You can setup the area you wish to detect motion by using mouse drag on preview image.
Set Motion
The channel where motion is occurred will be indicated in blue color from surveillance screen.
Motion Recording
Image will be recorded when motion is detected.
Draw Small MD Box
The area where motion is detected will be indicated in small green boxes.

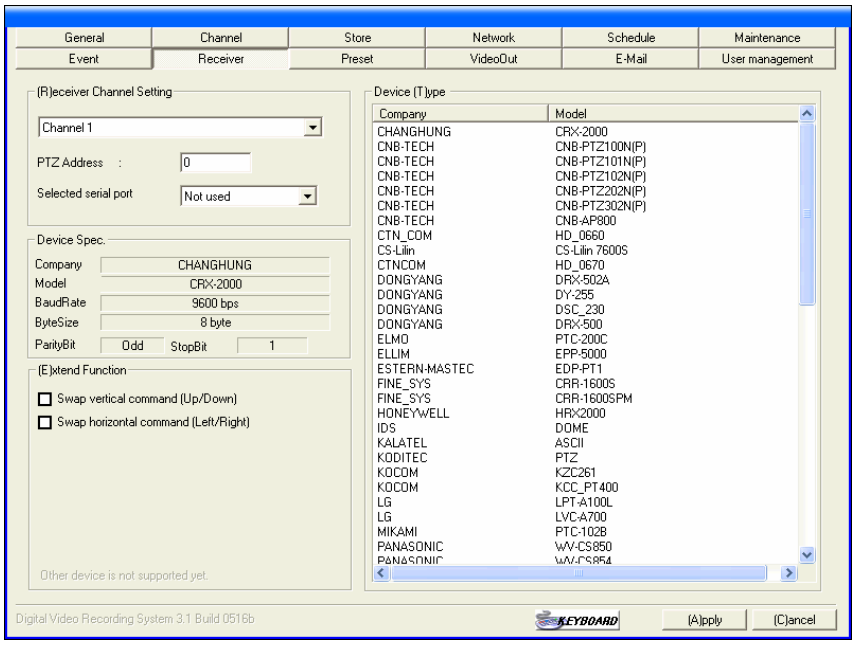
Pop-Up at MD
The channel which has motion detection will be viewed in full screen mode for the duration time(⑧pop-up time).

E-mail transmission at motion detection
The motion detected image will be transmitted to the e-mail address which is setup from [Configuration>E-mail]. For more detailed information, please refer to [Configuration>E-mail] function description in this manual.

⑦ **Sensitivity setup**
You can setup the sensitivity for motion detection. Detailed movements can be detected if you increase the sensitivity.

⑧ **Duration Time**
You can setup the duration time for [Pop-up channel at MD] function.

Receiver Configuration



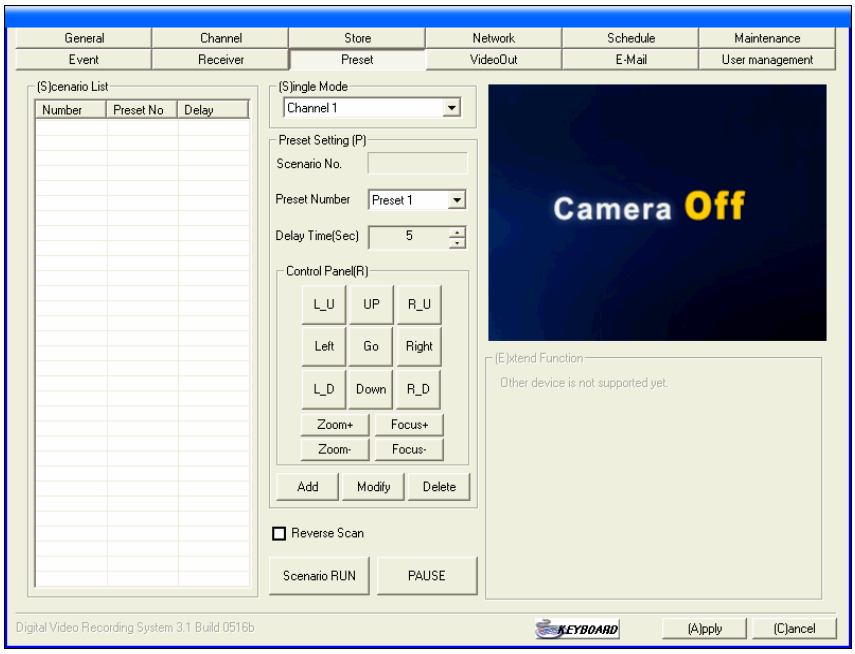
① **Port**
Select the serial port where P/TZ camera or receiver is connected.

② **Receiver Address**
Setup the P/T/Z camera or receiver address according to video channel.
Ref Most of the P/T/Z cameras which are used in the market have camera address. Camera address can be setup by the deep switch in the camera or OSD menu.
If the address you have setup from DVR and the camera address is not the same, P/T/Z function will not be operated so make sure that the setup is same.

③ **Device Type**
You can select various P/T/Z camera or receiver protocol by using your mouse.
The protocol should be one and equal even though you install various kinds of P/T/Z camera or receiver.

④ **Extend Function**
Swap vertical command (Up/Down)
Vertical command which is transmitted to the P/T/Z camera will be opposite.
Swap horizontal command (Left/Right)
Horizontal command which is transmitted to the P/T/Z camera will be opposite.

Preset Configuration



Single Mode

You can select the video channel which is connected to the preset camera.

Preset can be setup additionally by each channel.

① **Scenario List**

Presets which have been setup will be composed into one order diagram.

When [④Scenario RUN], it will be run by the order in scenario list and preset.

② Preset Setting

Scenario No- Scenario number you have selected will appear.

Preset No- Preset which is under add/modify will appear.

Delay Time

You can setup the delay time for the current preset location which is under add/modify.

Control Panel
Setup the current preset location by using P/T/Z button.
Add Button
You can record the current location in editing Preset and also apply to scenario list at the same time.
Modify Button
Selected preset location and delay time can be modified to the information that you have changed to.
Delete Button
Selected preset from the scenario list will be deleted.
But, camera location which is saved in the preset camera will not be deleted.

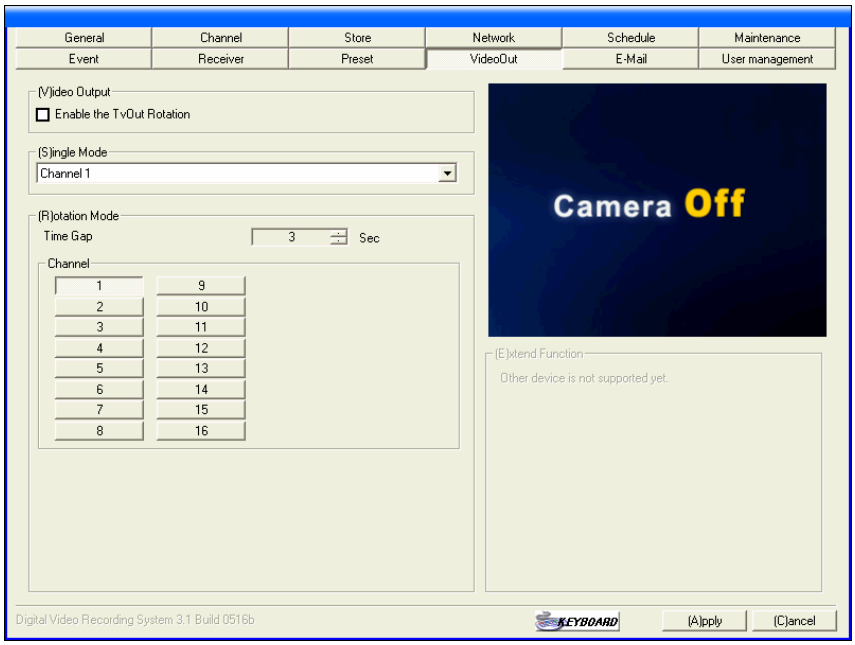
③ Reverse Scan
Scenario list will be run in round circulation.
예) Preset 1 → Preset 2 → Preset 3 → Preset 4 → Preset 3 → Preset 2...

④ Scenario RUN and PAUSE
Scenario RUN: Preset will be run from the top scenario list to the bottom. Scenario will be stopped if you click the left mouse button again.
PAUSE: Scenario which is being run will be paused.

Video Output

You can use video output function if you use with additional analog monitor.

Notice It has no relation with [Configuration>General], switching display function.



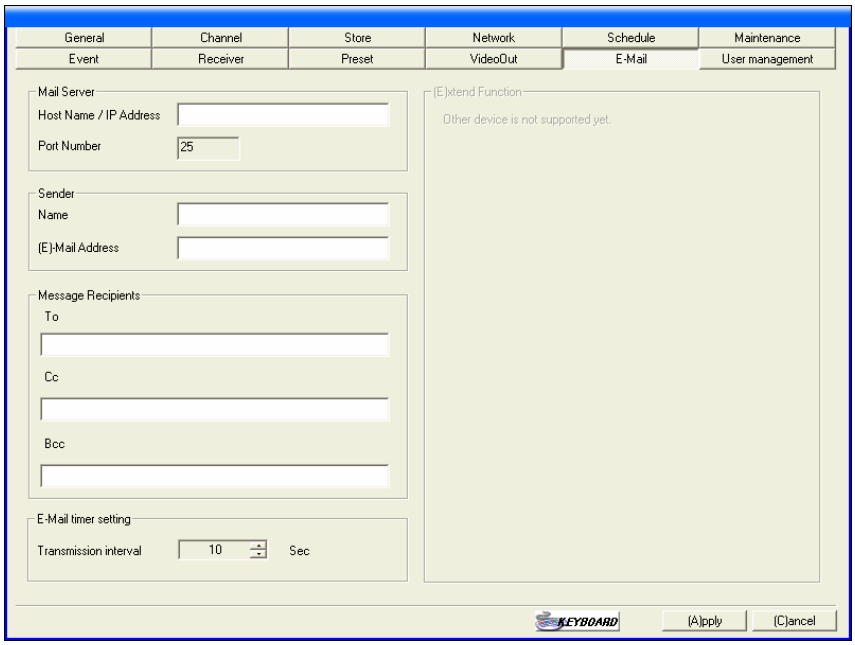
① **Enable the TV Out Rotation**
You can setup the images to be automatically displayed in sequence when analog monitor (CCTV Monitor) is connected to DVR.

② **Single Mode**
You can select specific channel to be viewed one at a time if you do not wish to view by display in sequence from analog monitor.

③ **Rotation Mode Time Gap**
If you use automatic display sequence function, you can setup the converting time to channel.

④ **Rotation Mode Channel**
You can select channels to display in sequence. For example if 1, 5, 7, 8, CH is selected,1, 5, 7, 8CH will be displayed in sequence from analog monitor.

E-mail Function Configuration



① **Mail Server**

Insert mail server address of the sender.

Ref E-mail function supports most of the mailing service but some mailing services are not supported. Please refer to next page for information regarding supported mail server list.

② **Sender**

Insert the name and e-mail address of the person who sends the mail.

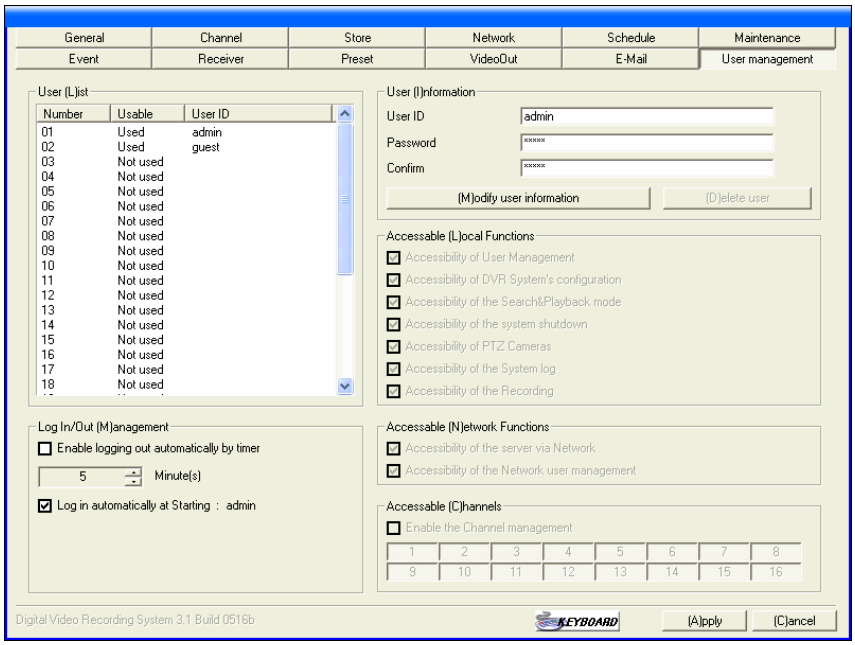
③ **Message Recipients**

To - Insert the e-mail address of the person who receives.
Cc - Input e-mail addresses of other recipients.
Bcc - Input e-mail address for blind carbon copy.

④ **E-mail Timer Setting**

Setup e-mail response time after motion is detected or sensor is triggered.

User Management configuration



① **User List**
Display list of user account had stored at present.
Select empty account that it is written [Not used]
If correct or erase user account, after select account by using mouse, correct or erase.

② **User information**
Display selected user's ID, password etc.
User information renewal: Click at user account creation or alteration
Account delete: Erase selected account at present.

③ **Accessible local function**
It is power establishment connected with function use in DVR System
Can use in function checked in check box in case of loge in to relevant user account in network

④ **Accessible Network function**

Establish power that can connect using NetClient or WebClinet in remote.

⑤ **Accessible channel**

Establish access privilege that user account can see. Only, because DVR System Plus Search is excepted in setting, user account that establish channel access privilege persuades search power revocation.

Ref Screen configuration in RD(Real Display) Board

After click right button of mouse, if select [Display Setting] Menu, Can do display setting of RD Board in monitoring screen of DVR System which is attached RD Board

Notice This setting is related only for image that is seen in monitoring mode,, and control about actuality stored image existent environment establishment > that do in channel setting desire .

Auto Gain Control: control Gain of inputted video signal automatically.

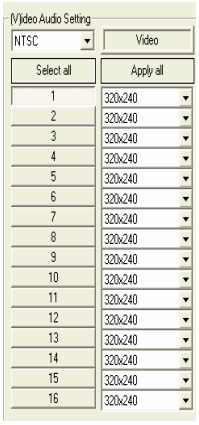
Gain Control: in case of check [Enable Auto Gain Control], user directly can control Gain.

Edge Control: It is function that handle line of guard of screen more clearly. Can see image of clearer boundary line by checking [Enable Edge Control], but there are a lot of noises so much.

Display Color Setting: control Bight / Contrast saturation for the better monitoring.

Application use

Kind and resolution establishment of camera



When DVR System Plus S/W is installed, DVR System has activated one channel. So, User must do early set depending on used environment.
Click environment establishment button and selects [general] tap.

① Video Auto Setting
NTSC: Korea, the United States of America, Japan, Australia (some area), South America (some area) etc.
PAL: Area (China, Europe, South America etc.) except NTSC area.

② Activate channel of Linked camera.
Ref Cancel channel that is not connected to camera.

③ Establish resolution of each channel.
Can select High resolution mode (NTSC: 640x480 , PAL 720x576)and low resolution mode. (NTSC: 320x240, PAL: 360x288) High resolution mode has good picture quality, but file size is bigger, low resolution mode has average quality but file size is smaller.

Image picture quality configuration

User can establish picture quality of image of each channel according to user's environment.
Click configuration button and selects [channel] tap.
Setup each image picture quality in [image quality] below right side after select channel to setup using [channel selection combo box] such as left side picture.

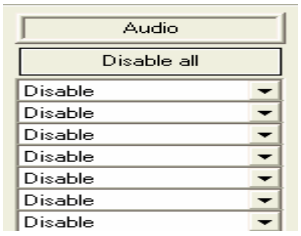
Audio establishment

When DVR System Plus S/W is installed, all audios become inactivation. Therefore, in order to use audio, user must set audio per channel.

Each channel different audio channel assignment

Click configuration button and selects [general] tap

① Establish audio in channel which has audio or is close camera. Only, audio of each channel can not establish overlap



Audio input control

Click configuration button and selects [general] tap.

Change audio input establishment according to actuality use environment. Only, in case of setting amplification microphone which has amplification circuit, built-in usually by 0

Motion detection setup

It is function that act in case of motion was detected in specific area that user defines.

If establish in motionless place averagely, holding period can increase because storage capacity of image decreases.

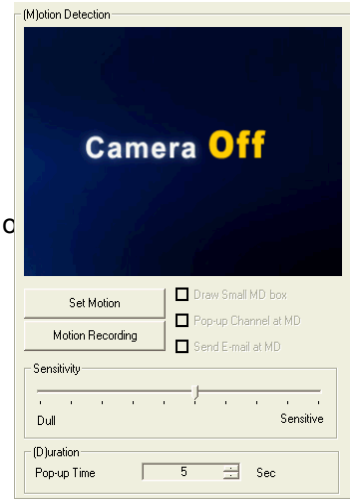
Click [event] tap after click configuration button.

By another method, click [present, channel setup] after click mouse right button in channel to establish motion watch in monitoring screen.

① Do drag by a mouse on preview screen and designates motion watch area.

② Click [motion setup] button and activates motion watch function.
If do not activate [motion setup] button motion watch function does not act.

③ Establish DVR Systems action in case o



Save Motion perception
When motion happens, establish to store picture.

To paint small MD box
In case of motion was detected in selected zone, small green box traces movement.

Channel extension at motion detection.
It is function that shows channel which is detected in full screen during appointed time (⑤ reference : continuance time)

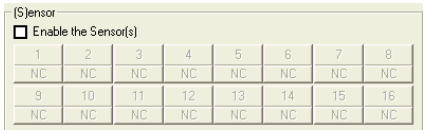
E-mail transmission at motion detection
Transmit display of when motion is detected to E-mail address that detected in [configuration> e-mail] in case of motion was detected in selected zone. More detailed contents can get from back [configuration> e-mail] function representation.

④ Sensitivity By raising responsiveness, user can detect small motion.
⑤ set channel extension time of [channel extension when sense motion] function.

Sensor and digital output Configuration

Establish Linked sensor and digital output to DVR System.
Supply maximum 16 sensors and 16 digital outputs in this DVR System. (Only, it is function that can use though I/O Board)
Can be acted organically connecting each sensor or digital output device (alarm, lighting, warning sound etc.) to camera channel.

Sensor establishment



① Move to [configuration> event]
First, select image channel that adjoin with sensor

② Check [sensor use] check box.

③ Select port number connected to sensor.
Notice Sensor that is not image channel is Linked channel. Refer to Sensor/Digital Output SETUP of 9page if sensor gets a line for Linked channel.

④ Setup Sensor's kind.
Sensor can classify by two types.

NO (Normal Open)
NO type of sensor is kind that is short-circuited when was sensed at normal times. Need not to establish apart in this setup.

NC (Normal Close)
NC type of sensor is kind that is short-circuited at normal times. When connect NC type of sensor, use after activate clicking NC button of sensor number button under.

⑤ Set of sensor was completed.

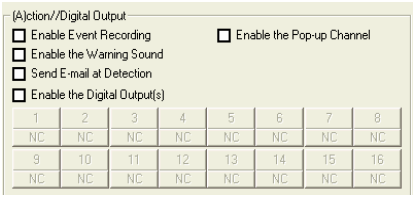
Digital output Configuration

① Move to [configuration>event'.

② Check [Enable the digital output] check.

③ Digital output device selects Linked port number.

Notice It is channel connected digital output device not image channel. Refer to Sensor/Digital Output SETUP of 9page if want to get information of channel that linked digital output device.


(A)ction//Digital Output
Enable Event Recording
Enable the Pop-up Channel
Enable the Warning Sound
Send E-mail at Detection
Enable the Digital Output(s)
1 2 3 4 5 6 7 8
NC NC NC NC NC NC NC NC
9 10 11 12 13 14 15 16
NC NC NC NC NC NC NC NC

④ Establish kind of digital output device..

Digital output device can be classified by two types greatly.

NO (Normal Open)

NO type of digital output device is kind that is short-circuited when was sensed at normal times.

Need not to establish apart in setup.

NC (Normal Close)

NC type of digital output device is kind that is short-circuited at normal times.

When connect NC type of sensor, use after activate clicking NC button of digital output device number button under.

⑤ Set of digital output device was completed.

E-mail setup

If use together E-mail and motion watch or sensor watch, can receive still image of relevant channel by E-mail in case of motion or sensor is.

① Input mail server address of side of sender.

E.g. www.yahoo.co.kr

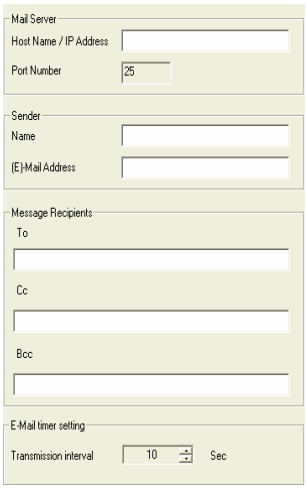
② Input information of side of sending mail.

Only, E-mail site that is recorded to E-mail address should be equal with ①'s [mail server].

E.g.

E-mail server: yahoo.com

/ E-mail: indiwe@yahoo.com



③ Input email address of recipient

TO: E-mail address of recipient

CC: input E-mail address of other recipients

BCC: input E-mail address for Blind

④ Setup E-mail response time after sensor has been triggered.

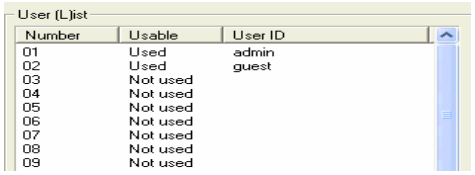
Ref E- Mail function does not support mailing. Therefore, encourage test certainly after establish E- mail function.

If set time so shortly in case of watching continuous motion, too many mails can be transferred to a recipients.

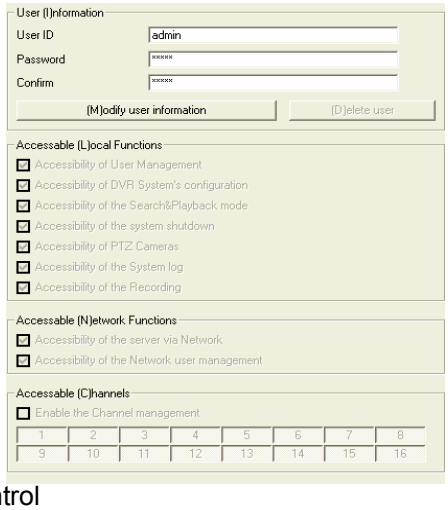
Also, encourage that setup to channel that can get action less and clean image if is possible.

User account Configuration

Because DVR System Plus creates user account of maximum 30, each user particularly can use different authorization levels.
Move to [configuration > user management].



① Select segment that is written [Not used] in user list BY mouse click.



② Input ID and password that want to make new user information and input password equally in [password confirm].

③ Click [modify user information] button creates user account.

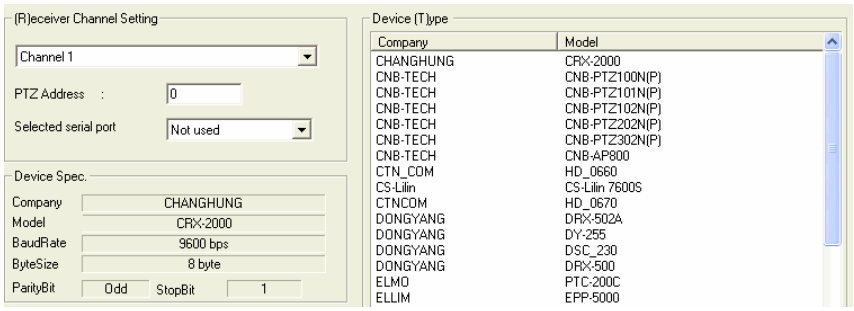
④ Accessible local function Setup DVR System's authorization level. When connect in remote, act according to user authorization level.

⑤ Setup authorization levels that can watch and search with connecting in remote control

⑥ Establish authorization that can Watch-screen by particularly channel in monitoring screen or remote monitoring.

Receiver Configuration

Setup in case of connected camera that includes P/T/Z function to DVR System.
Move to [configuration>receiver]



1. Offered P/T/Z Cable establishes Linked COMPORT.
   Usually, setup to Com1 or Com2

2. Select P/T/Z camera or receiver's kind.

3. If actuality value does not coincide with established value, P/T/Z does not act.

4. Setup receiver address.
   Establish address value by 8 if connected camera that have address 8 to channel 1.
   Receiver address is different according to P/T/Z camera or receiver's kind, setup with reference relevant manual

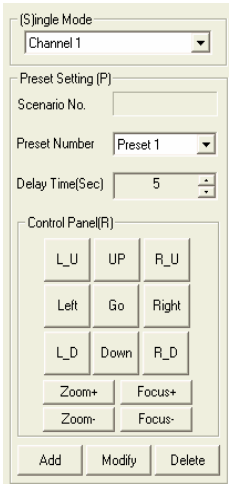
Preset Configuration

Setup when camera that has preset function connects to DVR System. Camera move automatically according to appointed coordinates and can watch several points.

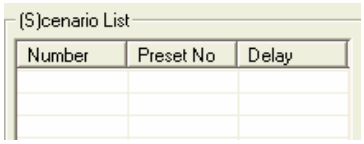
Notice All P/T/Z cameras do not support preset function. Refer camera manual about support availability of preset function or inquires it manufacturing company,

Move to [configuration> preset]

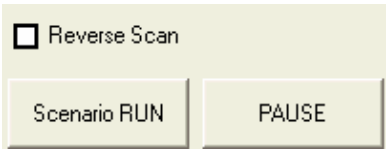
① Select channel to setup scenario in one output mode.
② Indicate preset number to save or change present Position.
③ Setup camera position to use P/T/Z buttons.
④ Using addition button
(in left side scenario list register)
Use correction / delete button in case of correct or Erase preset that is already registered.



⑤ Click (if click scenario list preview screen move automatically to camera position stored in preset) scenario beginning button after confirm whether was registered properly in left side scenario list.



⑥ If repeat same process moving by again 2times, user can Register preset of maximum 32.



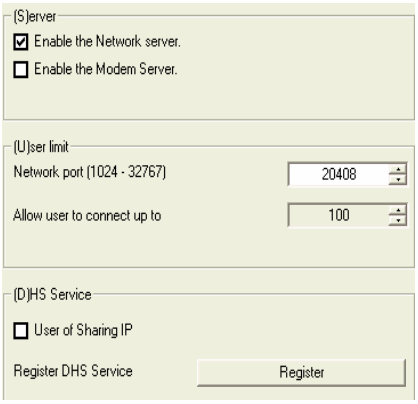
Network setup

It is service that can see image in remote place using specification ID without necessity to make sure IP changed continuously in DVR System which linked in dynamic IP.

Move to [configuration> network].

Make sure whether was checked to [TCP/IP server use] or not. Please check if was not checked.

① Input ID that subscribed for DHS service and clicks [register Dynamic IP User ID] button.



Search Mode

DVR System Plus Search allows users to search by time/date & play recorded images and audio. Support saving of still image by .bmp format, printing of still image, watermarked .bmp file of each image.

1 Control Panel

2 Playback Control Panel

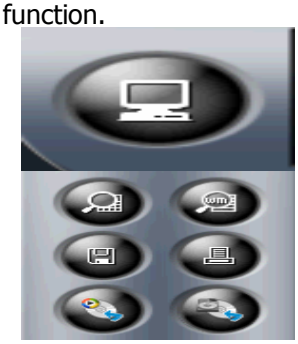
3 Screen Partition Panel

4 Data Search Process Panel

5 Audio Volume Control Panel

1 Control Panel

Control panel supports function that convert to watch mode or call data or do various backup function.



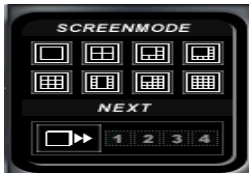
Surveillance Mode Button: Converts to surveillance mode.
Date Search Button: Search recorded image of other date by pening calendar
Save Button: Save still images of selected channels (bmp)
Print Button: Print image of selected channels.
Watermark Viewer Button: Run Watermark Viewer to view watermark of recorded original image.
AVI Backup Manager Switch Button: Switch over AVI Backup Manager Mode Refers to 73page for more detailed operation.
Backup Manager Switch Button: Switch over backup Manager Mode that can backup important data to Hard or CD
Convert to Backup Manager Mode that can backup important data to HDD OR CD.

2 Playback Control Panel

Playback Button: Playback
Pause Button: Pause playing
Reverse Playback Button: playback reversely
2x Playback Button: Playback 2x speed.
4x Playback Button: Playback 4x speed
2x Reverse Playback Button: Playback reversely 2x speed.
Play Next frame Button: Playback frame by frame
Previous frame Reverse Button: Reverse Playback frame by frame
Playback Mode supports 4 channels or 1 channel viewing mode.

3 Screen Partition Panel

Support 8 kinds of various screen partition display.



4 Data Search Process Panel

Hour Select Button
In recorded data of selected hour is indicated in red color.

Daily Search Bar:
Recorded data is indicated in red. Daily search (0h:0m~23h:59m)

Search point indication icon

By moving your mouse with left house button pressed, you can conduct quick searches with search bar.

Hour

Indicate time to search at present.

Ref To search data quickly, drag Search point icon to left or right after clicking pause button.

5 Audio Volume Control Panel

Control audio volume when replay of recorded data.
In case of recording audio on many channels, volume control must be set individually.

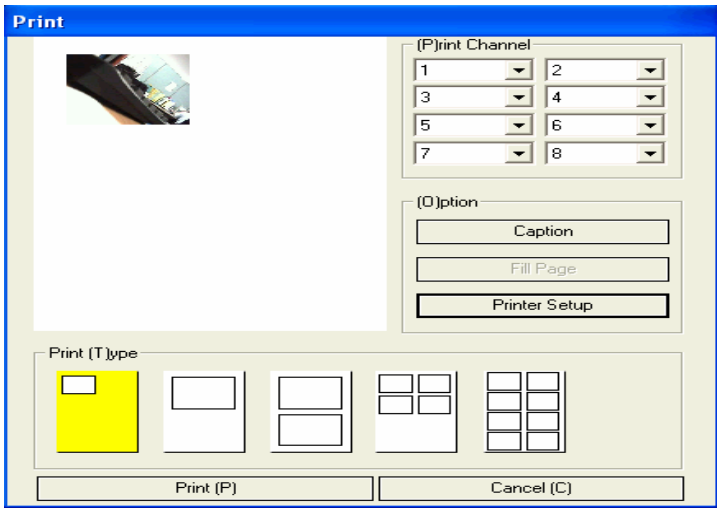
Calendar

Click the button of Search [Load Data].

Red Color: Indicate date having recorded data
Blue Color: Indicate date that mouse clicks
Gray Color: indicate not having recorded data
MD ONLY Button: Load Motion Detected data only.
LOAD Button: Load data of selected date from calendar.

Method of print current image

Click Button [Print] of Search.

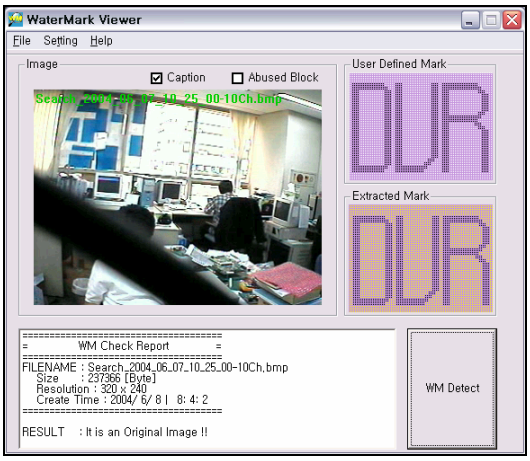


Print Channel: Select channel for printing images.
Option: Print image with Caption or select Print Option. Caption indicates Channel number and recorded time, place is not be indicated.
Print Type: Setup Print layout.

Watermark Viewer ICON

Open saved .bmp file to check if there is any image tampering & check if watermark is identical with original image.

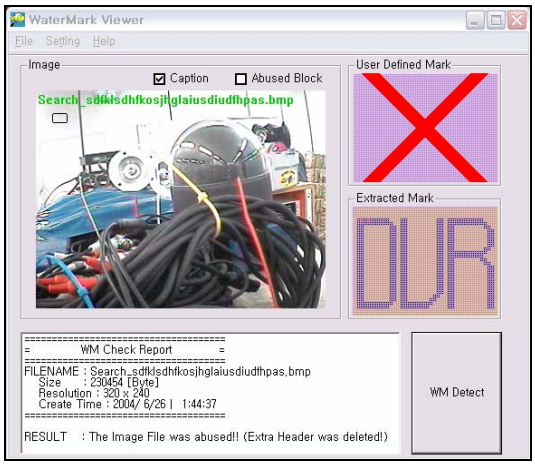
Ref Watermark is the skill to prevent illegal-copy and to protect effectively license and ownership of data owner. This digital watermark does not interrupt to watch image and use s/w at all. Also, watermark is very effect to find the source of original copy and the course of reprint.



① Click search's [WaterMark Viewer] button and executes watermark viewer.

② Click [file> Open] and call image which is stored to DVR System.
Ref (image must be .bmp file format)

③ Click WM Detect to check if the image has been tampered.
An image that has been tampered will illustrate an "X" in User Defined Mark as shown below.



Digital Zoom function

Digital Zoom is function that can expand specific part of image that is revived in DVR System Plus Search.

① Select clicking specific part of recorded image in DVR System Plus Search.

② If you roll mouse wheel, image is maximized up to x4 zoom. (wheel mouse must be used).

AVI Backup Manager Mode

AVI Backup Manager converts the recorded data into AVI file format to replay the
Image conveniently using Windows Media Player.
Click [AVI Backup Manager] from DVR System Plus Search Mode or desktop.

1 **Playback Control Panel**

2 **Channel Panel**

3 **AVI Convert Control Panel**

4 **Audio Volume Control Panel**

5 **Data Search Process Panel**

1 Playback Control Panel

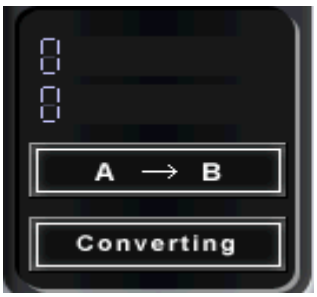
Playback Button: Playback

Pause Button: Pause playing
Reverse Playback Button: playback reversely
2x Playback Button: Playback 2x speed.
4x Playback Button: Playback 4x speed
2x Reverse Playback Button: Playback reversly 2x speed.
Play Next frame Button: Playback frame by frame
Previous frame Reverse Button: Reverse Playback frame by frame
Playback Mode supports 4 channels or 1 channel viewing mode.

2 Channel Panel

Select channel you wish to convert into AVI File using mouse. Click one more to cancel the selection.

3 AVI Convert Control Panel

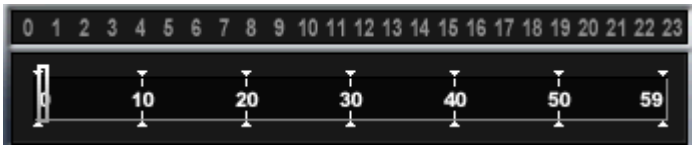


Selected channel data is converted into AVI File.
Setup Backup Time: Setup backup time to AVI File. Click [A->B] icon to setup start time and click one more to setup end time..
Convert into AVI File: AVI File backup starts

4 Audio Volume Control Panel

Control audio volume when playback of recorded data.
If various channels have recorded, only selected channel can be replayed.

5 Data Search Process Panel



Hour Button: Recorded data of selected hours is indicated in red color.
Minute Bar: Minute of recorded data is indicated 0~59min and recorded data is indicated in red color.
Search Mark Icon: It points the time on-searching.
Time: It indicates the time on-searching.

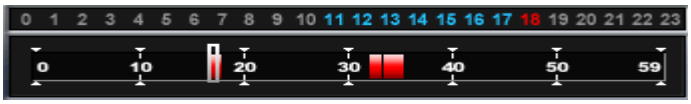
Application

Backup to AVI File

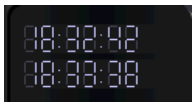
Click [AVI Backup Manager] from DVR System Plus Search or desktop to operate AVI Backup Manager.

① Click [Load Data] icon then Calendar window appears.
② Select the date you wish to back up, and click [LOAD] icon.
③ Select the channel you wish to back up in Channel Icon. Channel icon turns green when selected.

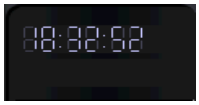
④ Enter the time you wish to start backup from Time Bar. Recorded data is indicated in red.

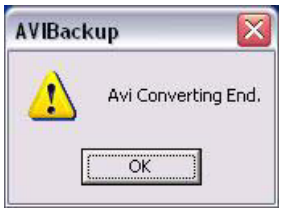


⑤ Click the start time and click [A→B] icon. Then start time will automatically appear.
⑥ Click the end time and click [A→B] icon. Then end time will automatically appear.



⑦ Click [Converting] icon after entering the limits of the backup time in reference. Start Backup to AVI File after selecting the location of the directory to backup data and clicking [OK]. Windows prompt message indicating AVI Converting End will automatically appear. You have successfully converted your data for storage.

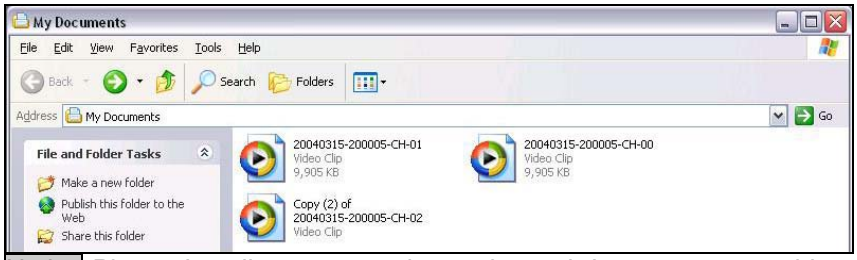




Ref The backup time converted by AVI Backup Manager is less than one hour. Therefore, when the time between start and end is less than one hour, backup data time indicates.

Play Backup Data using Windows Media-Player

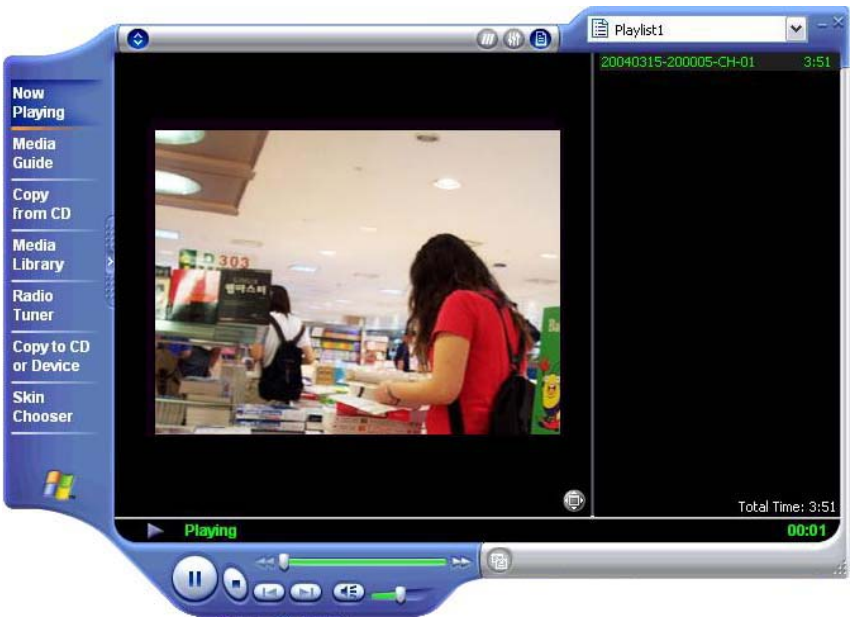
AVI File which is backup with AVI Backup Manager uses our own codec. Accordingly, if playing backup data in uninstalled DVR Software computer, it requires installing our own codec the first. Our installation CD includes this codec. If you don't' have installation CD, please contact DVR dealer.



Notice Please Install our own codec at the end. It may cause problem to play if other codec is installed.

① AVI Replay all AVI format data using your Windows Media Player.

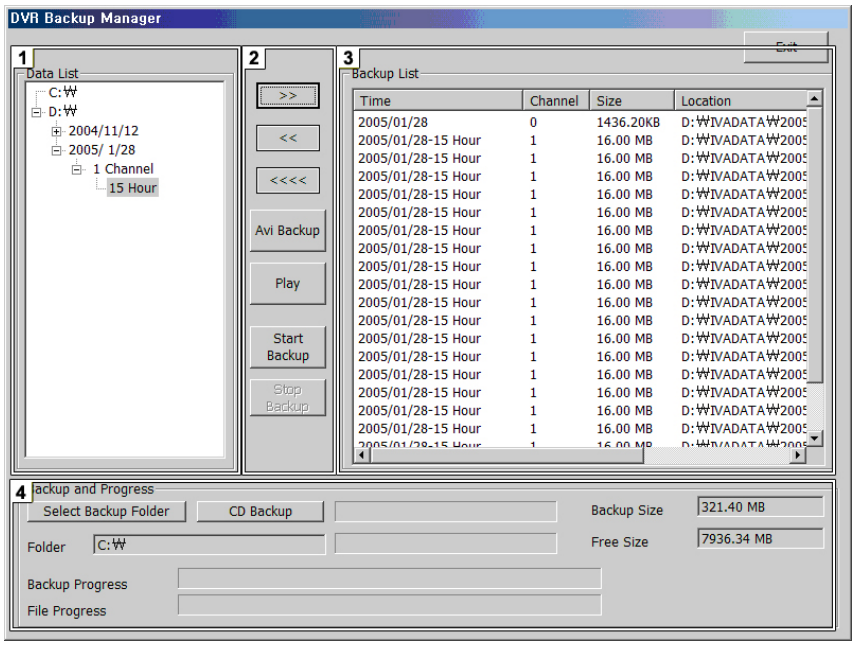
② Media Player should replay stored data as seen below.


Playlist1
20040315-200005-CH-01
3:51
Now Playing
Media Guide
Copy from CD
Media Library
Radio Tuner
Copy to CD or Device
Skin Chooser
Total Time: 3:51
Playing
00:01

Backup Manager

Recorded images from DVR System Plus can be managed efficiently or quickly backup to CD or Hard Disk.

REF CD Backup is supported in minimum Windows XP.



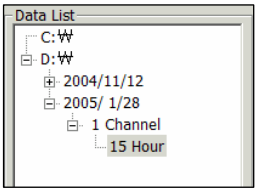
1 Data List

2 Control Panel

3 Backup List

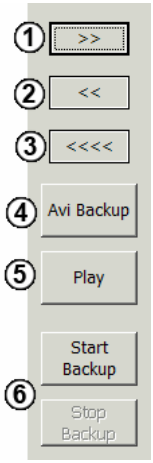
4 Backup and Progress

1 Data List



Recorded data from DVR System indicates in the order of [Record location>Record Date>Record Channel>Record Time].

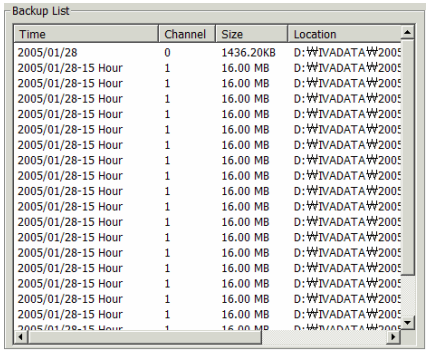
2 Control Panel



This panel can control backup data. Backup data can be added or removed.

① Transfer selected data from Data List to Backup List.
② Remove selected data in Backup.
③ Remove all selected data in Backup List.
④ Start [AVI Backup Manager].
⑤ Start [DVR System Plus Search].
⑥ Start or Stop to backup

3 Backup List



It lists backup data. Name of data file will be formed into as follows, please refer to when add or remove data.

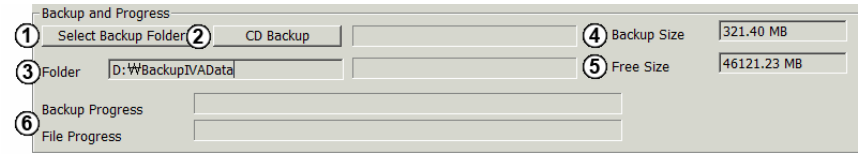
00 - 200501281533-0000.IVA

Ch Year/Mon/Date/Hour/Min File No

Ref Channel will be marked as 00ch~15ch.

4 Backup and Progress

It indicates backup folder directory and backup progress.



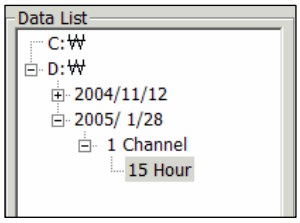
① Select folder to backup data.
② If backup to CD, select CD-RW device and set up option. For more information, please refer to 87page.
③ Indicates folder to backup data.
④ Indicates total size of backup List data.
Ref One CD can storage maximum 700MB, so when backup to CD, need to check backup size.
⑤ Indicates free size of Hard Disk.
⑥ Indicates backup progress when click [Start Backup] to start

Application

Backup to HDD using Backup Manager

Click [Backup Manager] from DVR System Plus Search or desktop to operate backup manager.

① Select the date and time you wish to backup from Data List.
E.g. Indicates 2005/ 01/ 28/ CH 1 15o'clock.



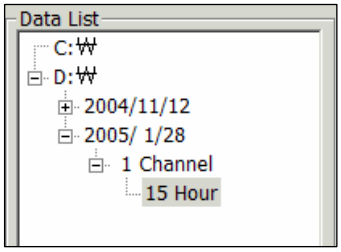
② Click [>>] button and move selected data to Backup List.
③ Check Backup Size and click [Select Backup Folder] button and set up folder to backup.
④ Click [Start Backup] button, then start backup.
Ref Backup data is not able to overwrite in DVR System, and then it is saved with occupied Hard Disk storage. Therefore, the record time would be shorter.

Backup to CD using Backup Manager

Click [Backup Manager] from DVR System Plus Search or desktop to operate backup manager..

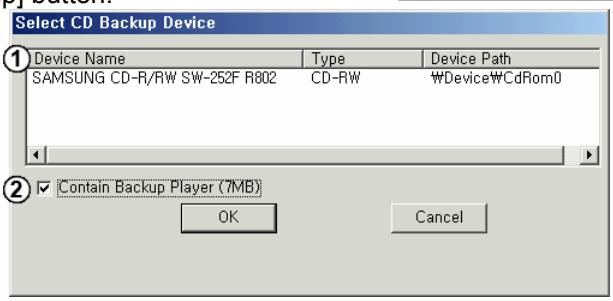
Notice CD Backup can be supported in minimum Windows XP.

① Select the date and time you wish to backup from Data List.
E.g. Indicates 2005/ 01/ 28/ CH 1 15o'clock.



② Click [>>] button and move selected data to Backup List.

③ Check backup size and click [CD Backup] button.



④ From Select CD Backup Device(Picture ①), select CD-R or CD-RW device.

⑤ Check [Contain Backup Player] option.
Ref [Contain Backup Player] is an option for including Backup Player when backup to CD. This is necessary for playing CD at the other place. Therefore, we recommend checking [Contain Backup Player]..

⑥ Click [Start Backup] button, then start backup.
Ref Error Message.

There is no medium in the burner
There is no CD inside CD-RW drive

If you want to backup CD. Please reboot or end process 'imapi.exe'
Reboot PC or stop 'imap.exe' by force from Windows Task Manager.

Set CD recorder failed - Conflict with CD-RW settings

Not Enough HDD Disk Free Space to Create CD IMAGE

HDD must have enough free space to CD backup data onto CD.

The call failed because IMAPI has not bean opened with Open.

Your Operating System (OS) does not support issues, please contact your local DVR dealer.

NetClient Mode

NetClient Program is able to receive images from DVR Server using the Internet. NetClient functions: Display & recording, camera control from remote site and other features that we will illustrated in this document.

1 **Control Panel**

2 **Screen Partition Panel**

3 **P/T/Z Control Panel**

4 **Channel Type Selection Panel**

5 **Other Panel**

1 Control Panel

The Control Panel can search program, open connection setup and record server image from remote PC where NetClient is installed.

Search Button: Runs search program

Connection Setup Button:

Run [Connecting & Configuration Management] used for internet access. Run [Modem Connection] used for internet access.

Remote Connection Setup Button:

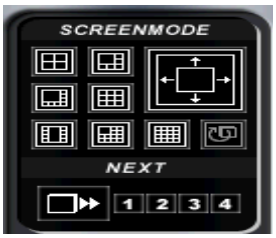
Connect with DVR System and set up from remote site.

Recording Button: Save selected channels.

All Button: Select all channels to record.

2 Screen Partition Panel

Support 7 kinds of various screen partition, also can establish function such as full-screen and sequence rotation display mode.



3 P/T/Z Control Panel

When DVR Server is using P/T/Z camera,
select channel you wish to control and click various buttons from P/T/Z Control Panel to control camera. Also, it enables to control play speed of image using below drag panel.

Ref Only broadband Internet users [LAN Mode] can use P/T/Z control.
Modem users [Modem Mode] cannot use this feature

4 Channel Type Selection Panel

Click specific channel from Camera Selection Panel to enlarge and view image

5 Other Panel

Modem: Select [MODEM] when using Modem
LAN: [LAN] when using ADSL, VDSL, Cable, LAN etc. and network speed is rapid
Record Image: Save one frame image from on-playing image.
Print: Print image from on-playing image.
Connection Setup for LAN Users

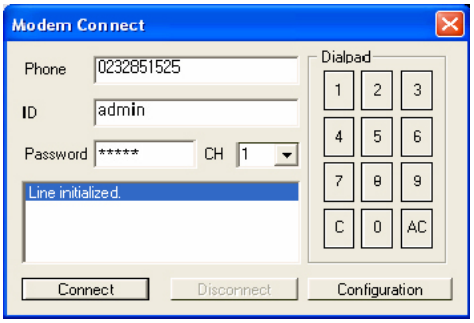
If users PC have already connected with LAN, it will automatically setup LAN.
Click [LAN] icon from NetClient Main Screen to connect from remote site using LAN.

Connection Setup for Modem Users

Click [MODEM] icon from NetClient Main Screen to connect from remote site using Modem.
Click [Configuration] button to run [Modem Connect] window

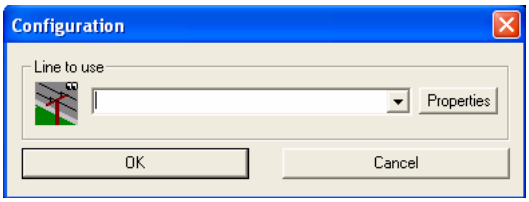
[[Modem Connect] window is initialized. Insert Telephone No.(Insert the number assigned to DVR Server. Insert 'w' and Telephone No. to add the waiting time while the line is being dialed.

E.g. (w0232851525), ID & Password, (Insert the ID & Password which is registered in the Server Program, [User Management].) Select the camera channel number and click [Connect].



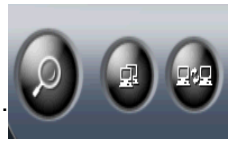
Ref you can only access one channel at just one time using Modem. In order to change into different channel, click [Disconnect] and try to connect the other channel again.

Configuration



The modem model name will appear when you click [Configuration]. During initial setup, the Model Name needs to be confirmed to complete registration, thereafter, this step will be bypassed.
Click [Properties] to view General/Advanced default setup. Use default when use of modem.

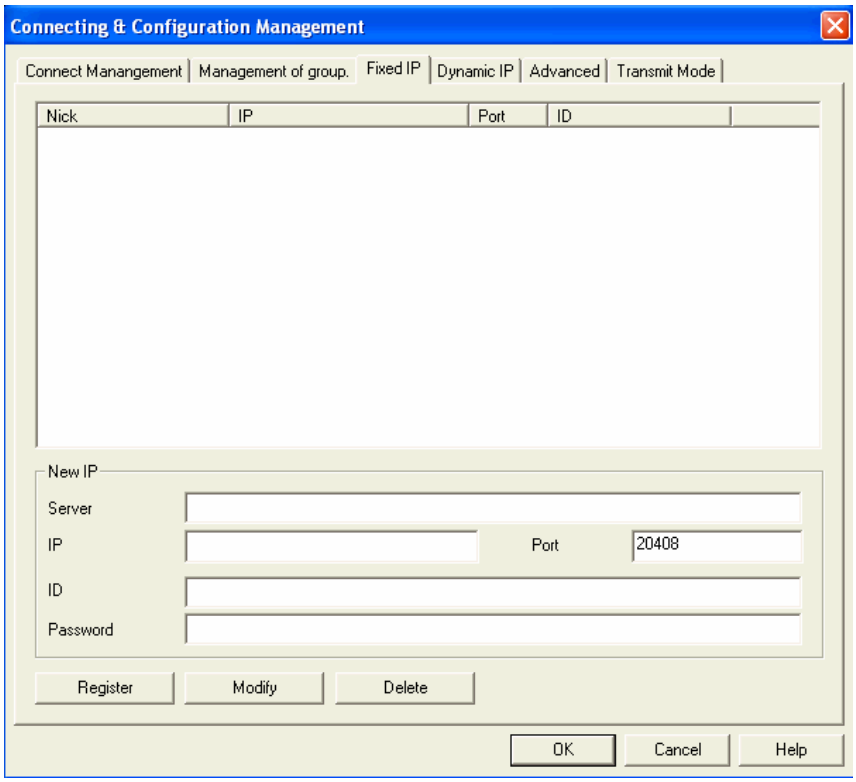
DVR System Fixed IP Registration



If DVR System has fixed IP, it is able to connect with DVR System directly.

① Click [Configuration] from NetClient Main Screen.

② Click [Fixed IP] Tap.



③ Insert Server Name and IP Address.
Users can make Server name.
Port is [20408] if default port has not changed.

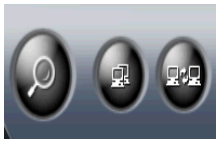
④ Put an IP account which is registered to DVR System.
For information of Registration and Management, please refer to

45page.

⑤ Register inserted DVR System to fixed IP List.

⑥ Registered DVR System content appears.

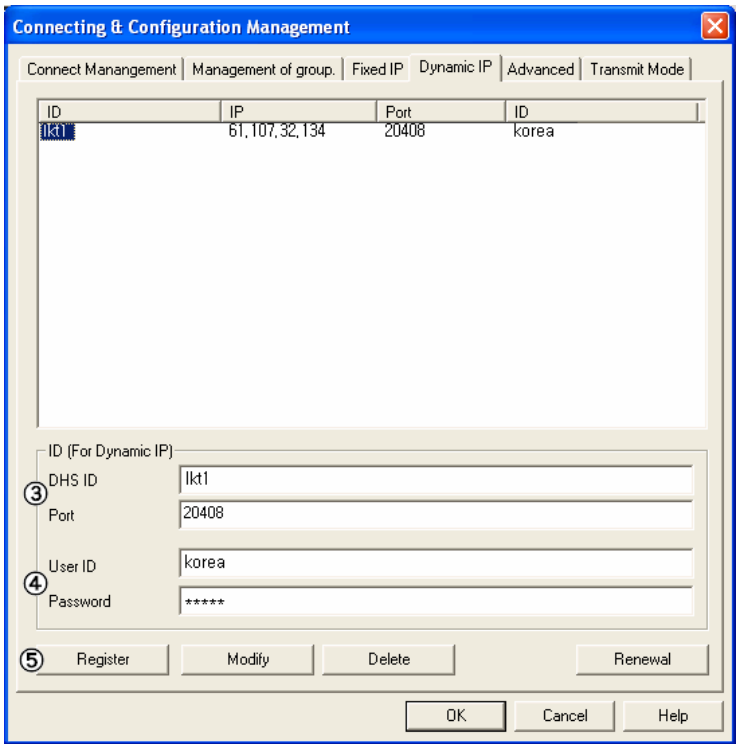
DVR System DHS Service Registration



If DVR System has Dynamic IP, DHS Service is required to use

① Click [Configuration] from NetClient Main Screen.

② Click [Dynamic IP] Tap.

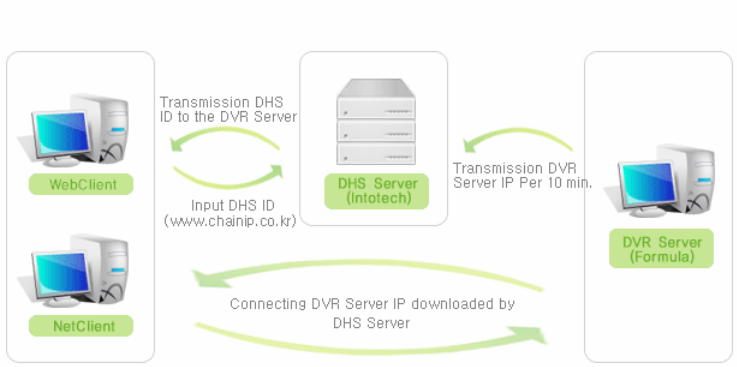


③ Insert DHS ID and Port.

DHS Service ID means specified ID which is registered to DHS Service.
It is not related with DVR System accounts.
Port is [20408] if default port has not changed.

④ Put an IP account which is registered to DVR System.
⑤ Register inserted DVR System to fixed IP list.

Ref Summary of DHS Service

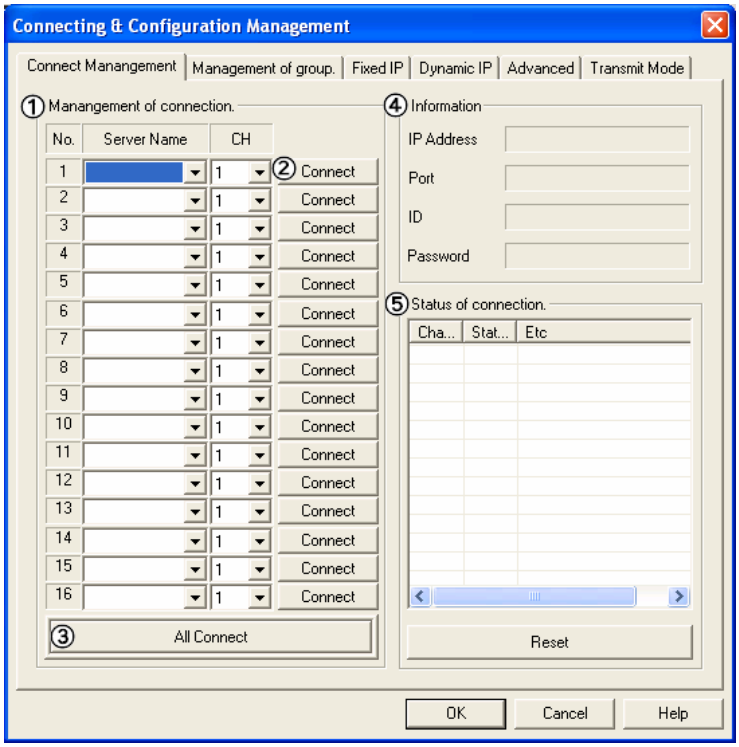

WebClient
NetClient
Transmission DHS ID to the DVR Server
Input DHS ID (www.chainip.co.kr)
DHS Server (Intotech)
Transmission DVR Server IP Per 10 min.
DVR Server (Formula)
Connecting DVR Server IP downloaded by DHS Server

All computers have their own addresses and we call them IP. Our DVR System Plus supports remote control by using IP of Internet. On the same principle as mail delivery after sorting according to address in Post Office, many computers are able to communicate through IP address using Internet. Using this feature of Internet, our DVR System Plus supports various network function for search and setup configuration from remote site etc.

There is a problem that IP can changeable. Due to short of IP address worldwide, most of all telecommunication companies use procedure that sharing IP address with many computer in order of connection. Therefore it is highly possible that computer IP address change every time they connect Internet. If IP address changes, we can lose the address to contact DVR System..

DHS Service is the one System to overcome this Internet environment. DHS is checking the IP per 10 minutes to maintain the remote control regardless of DVR System IP Changing. Even though remote users don't know DVR System IP address, they can connect with DVR System using DHS Service which is like mediating between remote users and DVR System. So they can use network functions from any where without any interference by changing IP address. This is DVR Network Service.

Connecting & configuration Management



① Connect Management
Set up each channel to connect.

② Connect Button
Click [Connect] button to connect with each channel
[Server Name] indicates registered DVR Systems to Fixed IP / Dynamic IP.

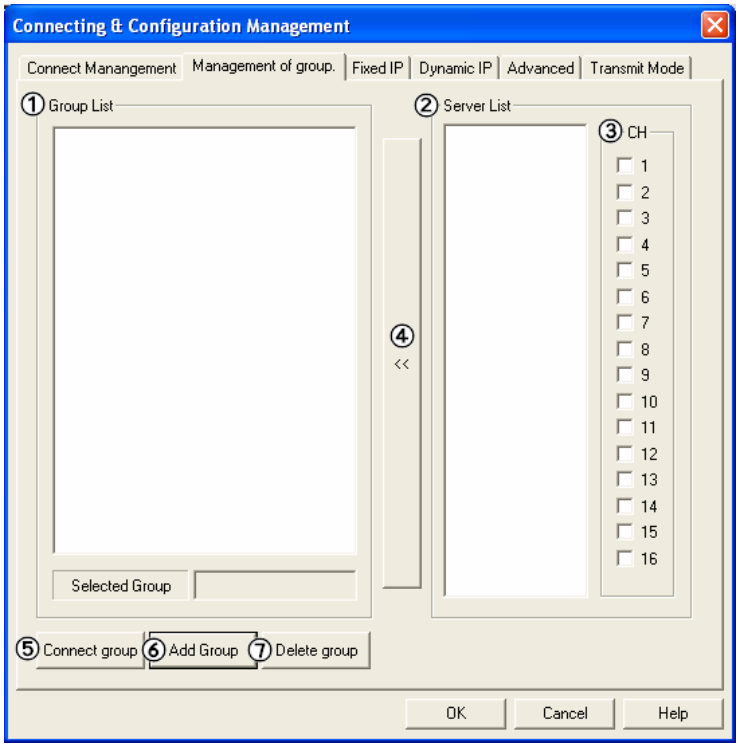
③ All Connect Button
Connect all channels of DVR System.

④ Information
Indicates information of selected DVR System.

⑤ Indicates statues of connection.

Management of group

Group Connection enables users to connect to various DVR Systems with one click.



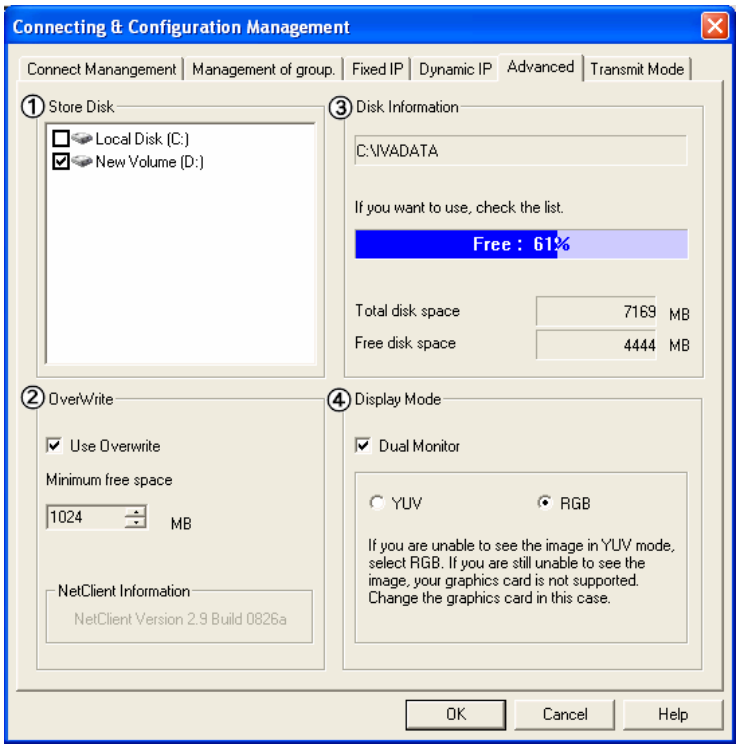
① Group List
Indicates registered group list.

② Server List
Lists registered DVR System to Fixed IP / Dynamic IP Tap.

③ Channel
It indicates channels which are able to connect with selected DVR System from Server List. Users can set up directly.

④ Add server in Group.
Add selected channel from server in selected group.

Advanced

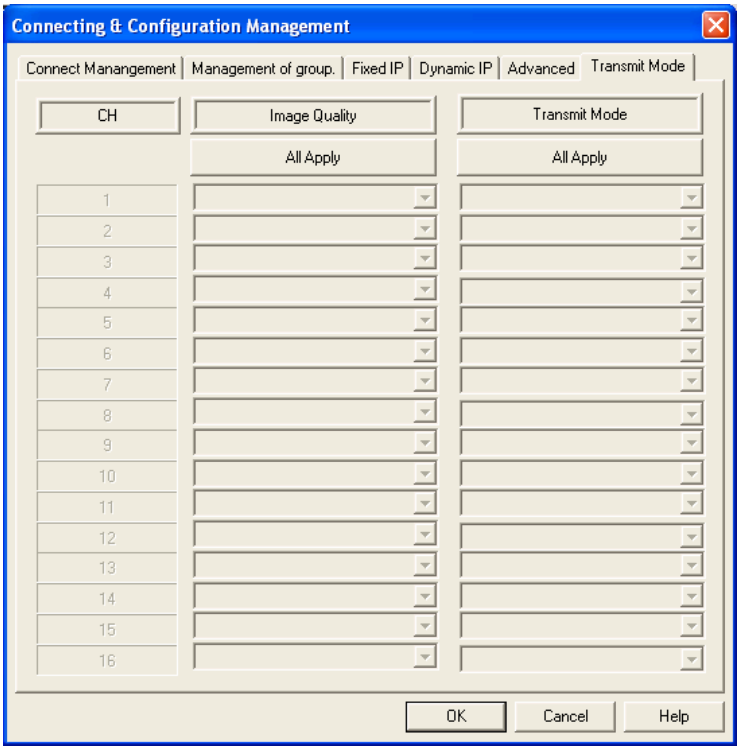


① Store Disk List
Check (√) HDD to use as recording device
Notice If data is recorded on HDD (Operating System installed), it may cause unstable status by lack of store space. Recommend to disable C drive (Operating System installed) as recording device and use other drives (D, E).

② Overwrite
Setup overwrites to delete the oldest data when free HDD is lesser than minimum free space allowed.

③ Screen Mode
Dual Monitor: Setup this option when use of Dual Monitor function supported from some graphic card.
YUV/RGB: Setup YUV or RGB. YUB Mode is fewer loads than RGB Mode. If you are not able to view the images using YUV Mode, update the Graphics Card Driver and if problem persists check whether the Graphics Card supports YUV Mode.

Transmission Mode



① Setup Image Quality transmitted from DVR Server.
Network transmission speed will be decreased as you increase the image quality due to file size.

② Transmit Mode

Remote Mode: Setup when use of NetClient from external network. Frame is decreased to improve transmission speed.

Local Mode: Setup when use of NetClient from internal network. Image is displayed regardless of frame speed.

Application

Record image from NetClient

It enables to record images from NetClient PC during surveillance.

① Log in DVR System you wish to surveillance.

② Click mouse left button on the screen you wish to record and click REC button to record.

Record captured image from NetClient

It enables to save captured images as JPEG File from NetClient PC during surveillance.
However, WaterMark cannot be supported.

① Connect with DVR System you wish to surveillance.

② Select the image you wish to save with mouse left button and click [Save] Icon.

③ From [Record File] window, select directory to save and click [Save] button.

Print captured image from NetClient

It enables to print captured images during surveillance from NetClient PC. Max 8ch print is available.

① Connect with DVR System you wish to surveillance.

② Select the image you wish to print with mouse left button and click [print] Icon

③ Setup print shape and channel, click [Print] button.

Local Search

1 **Control Panel**

2 **Playback Control Panel**

3 **Screen Partition Panel**

4 **Search Data Process Panel**

1 Control Panel

Consist of [Surveillance Mode] icon, [Load Data] icon, [Save Still Image] icon, [Print Still Image], [WaterMark Viewer] icon.

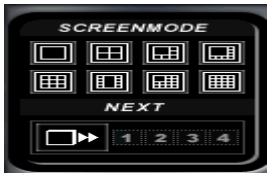
Surveillance Mode Button: Converts to Surveillance Mode.
Load Data Button: Shows recorded date in calendar.
WaterMark Viewer Button: Runs WaterMark Viewer.
Save Button: Save captured image as Bitmap File.
Print Button: Print captured image using printer.

2 Playback Control Panel

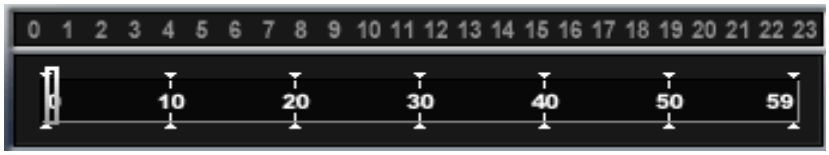
Playback Button: Playback
Pause Button: Pause playing
Reverse Playback Button: playback reversely
2x Playback Button: Playback 2x speed.
4x Playback Button: Playback 4x speed
2x Reverse Playback Button: Playback reversely 2x speed.
Play Next frame Button: Playback frame by frame
Previous frame Reverse Button: Reverse Playback frame by frame
Playback Mode supports 4 channels or 1 channel viewing mode.

3 Screen Partition Panel

Support 8 kinds of various screen partitions, full –screen and sequence rotation display mode etc.



4 Search Data Process Panel



Hour Button: Recorded data of selected hours is indicated in red color.
Minute Bar: Minute of recorded data is indicated 0~59min and recorded data is indicated in red color.
Search Mark Icon: Points the time on-searching.
Time: It indicates the time on-searching.

Search Data

Click [Load Data] icon from NetClient Search.

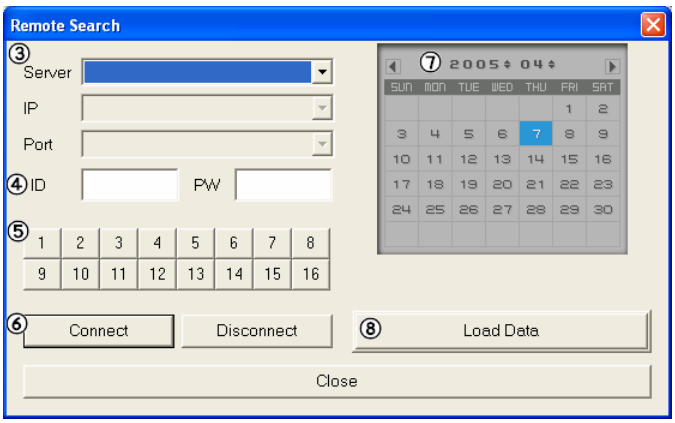
Red Color: Indicates that there is recorded data.

Blue Color: Indicates date that mouse click.
Grey Color: Indicates that there are no data.
MD ONLY Button: Search only motion record data.
LOAD Button: Load recorded data from selected date.

Remote Search

Remote Search using LAN

① Click [Search] icon from NetClient.
② Click [Remote search] from NetClient Main Screen
.



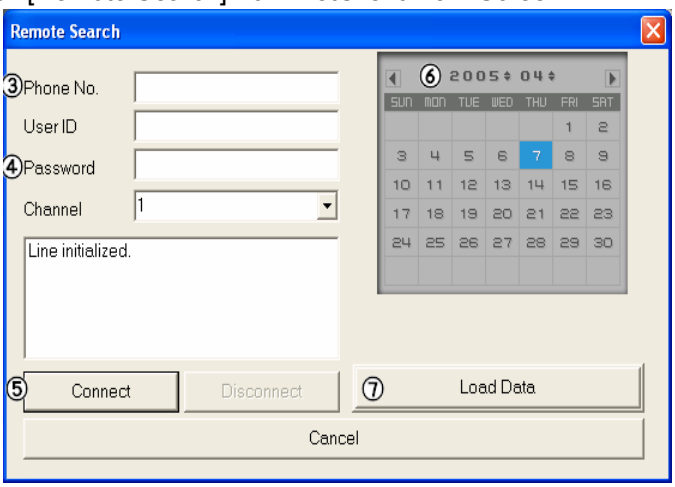
③ Select DVR System you wish to connect from [Remote Search] window.
④ IP and Port will be setup automatically as registered as to [Configuration>Fixed IP & Dynamic IP].
⑤ Insert ID and Password.
⑥ Select channel you wish to connect. Max 4ch search & playback is available from remote site using LAN.
⑦ Click [Connect] button.
⑧ If connects properly, indicates the date in red which is recorded in DVR System.

⑨ Select the date you wish to search from the above calendar and click [Load Data] button.

Click hour button in red to load data. The loading time depends on the bandwidth. It takes 30sec to max 1min

Remote search using Modem

① Click search icon from NetClient.
② Click [Remote Search] from NetClient Main Screen.



③ Insert Phone No. from [Remote Search] window.
④ Insert ID and Password.
⑤ Select channel you wish to connect. Only 1ch search & playback is available from remote site using Modem.
⑥ Click [Connect] button.
⑦ If connects properly, indicates date which is recorded in DVR System.
⑧ Select date you wish to search from the above calendar and click [Load Data] button. The loading time depends on the bandwidth.

Remote Search Main Screen

Remote Search Main Screen is the most same both LAN Mode and Modem Mode.
(Only1ch search & playback is available from remote site using Modem

1 **Control Panel**

2 **Playback Control Panel**

3 **Screen Partition Panel**

4 **Search Data Process Panel**

1 Control Panel

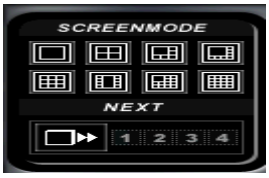
Surveillance mode Button: Converts to surveillance mode of NetClient
Local search Button: Search recorded images at NetClient system.
Remote search Button: Search recorded images at DVR System
Save Button: Save images of present selected channel as BMP Watermarking function is not available.

2 Playback control Panel

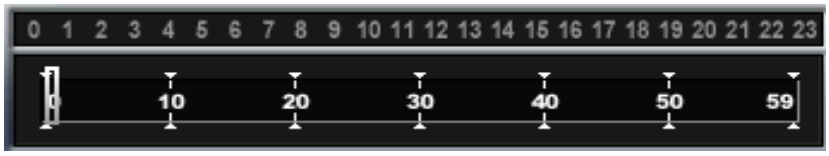
Pause/Playback Button: Supports pause and playback of images.
Ref In remote search, 2X, frame by frame playback does not supported.
Playback speed control: Controls playback speed.

3 Screen partition panel

Supports various screen partition.
Ref In remote search, Only 1ch & 4ch screen partition is supported.

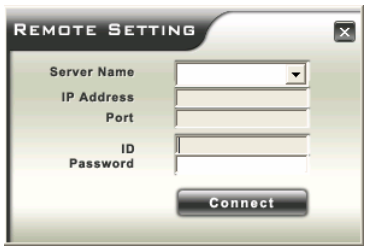


4 Data search process Panel

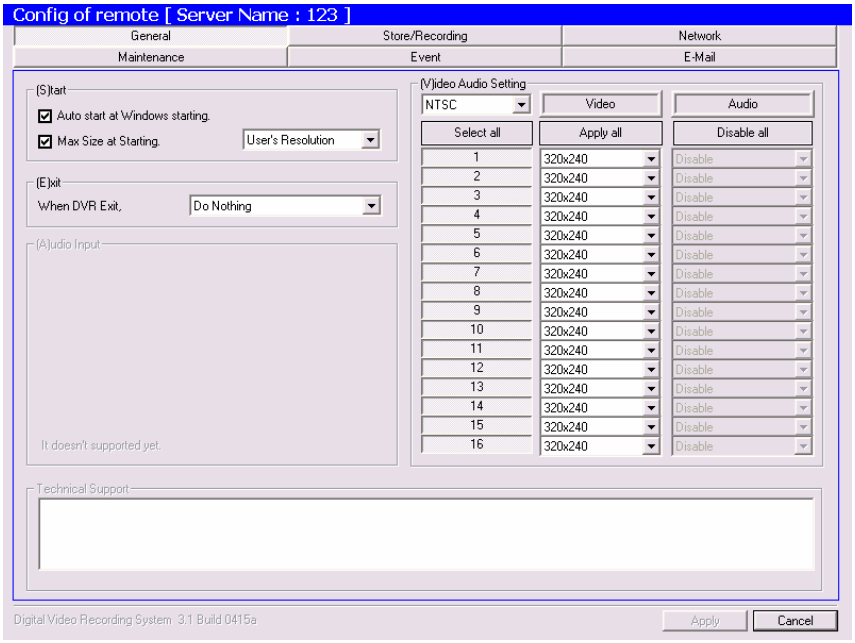


Hour Button: Recorded data of selected hour is indicated in red color.
Minutes search bar: Minute of recorded data is indicated 0 ~ 59min. Recorded data is indicated in red color.
Present search time icon: It indicates time to search at present.

Remote configuration
When you click [Remote configuration] button at main screen of NetClient, [Remote setting] windows appears.
Click [Connection] button after inserting information of server system to connect



Remote configuration>General



① **Start Section**

Auto start : DVR program is automatically executed when systems is turned on.

② Max size at starting

DVR program is setup as the exact size of monitor resolution to prevent display of other program..

③ Exit

Only DVR program shuts down after closing DVR program or the complete systems shuts down. (Computer power off).

④ **Video / Audio setup**

Setup camera input type (NTSC/PAL)

NTSC: Korea, USA, Japan, Australia (some region), North America (some region) etc

PAL: NTSC Regions excluding NTSC area (China, Europe, South America, etc)

Channel selection

Select channel for surveillance. Generally, be off channel not to connected to camera.

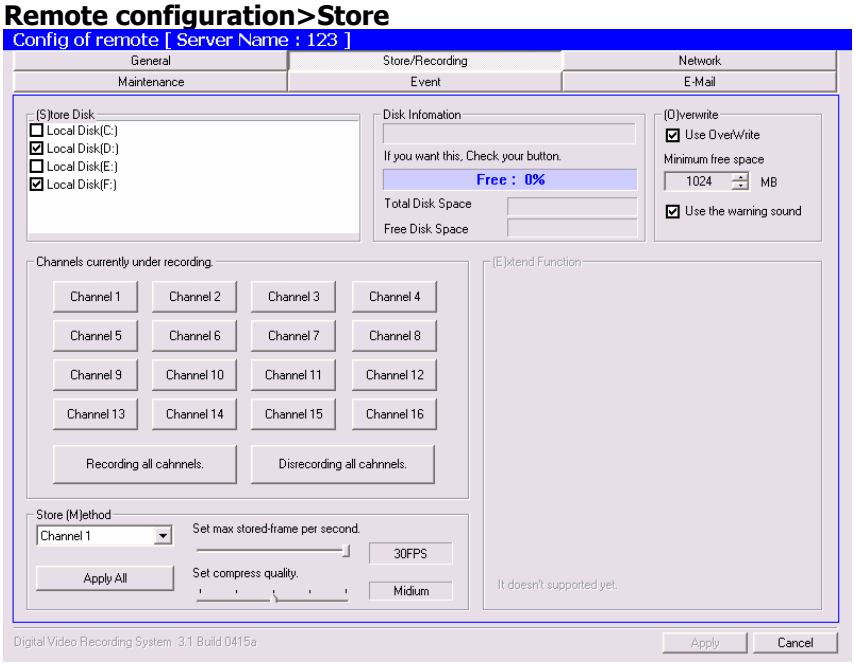
Resolution setup

Setup resolution of image. There are low resolution and high **resolution.**

Ref NTSC – 320X240, 640X480

PAL – 360X288, 720X576

Remote configuration>Store



① Store disk

Indicates installed HDD drive to record (removal HDD is not indicated)

(Check (√) HDD to use as recording device)

Notice In case of picture is stored in hard-disk which has operating system, if hard-disk will be full, system can be shut down or repeat rebooting.

② **Disk information**

Indicates information of HDD selected in store disk.

③ Overwrite

Setup overwrite to delete the oldest data and record new data when free HDD is lesser than minimum free space (default: 1024 MB) allow.

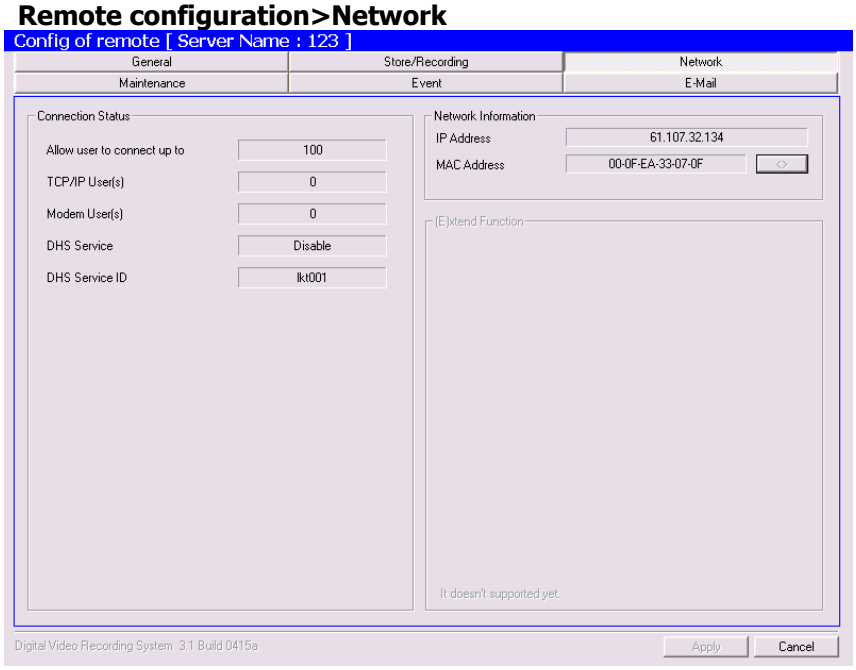
Notice In case of using Overwrite function, the oldest data will be deleted without any warning notice about lack of disk capacity.

It is important to store important recorded data after backup through [Backup Manager] program.

④ Record setup

It supports record or non-record per channel.

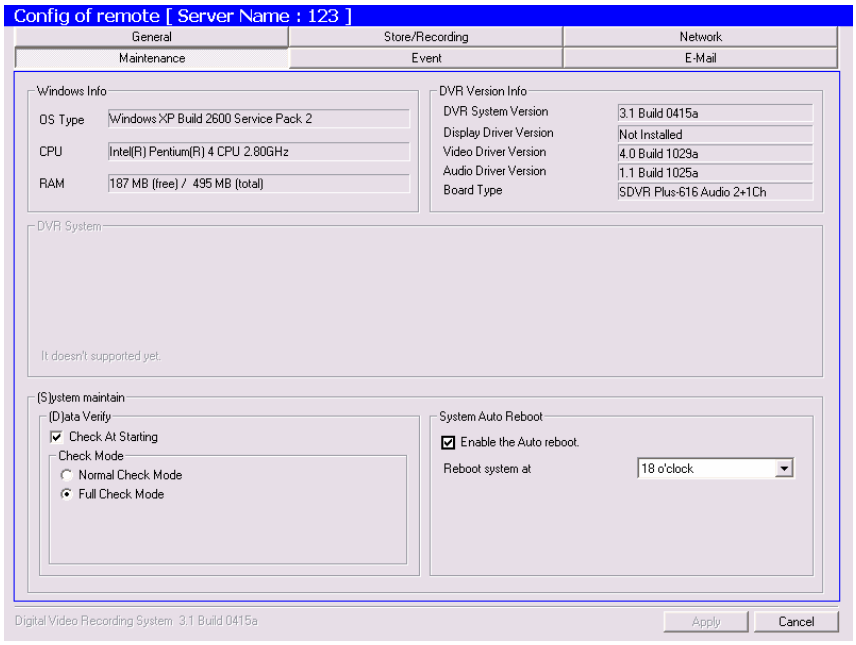
Remote configuration>Network



It displays network configuration status of server system.

Ref Change of configuration is not available.

Remote configuration> Maintenance



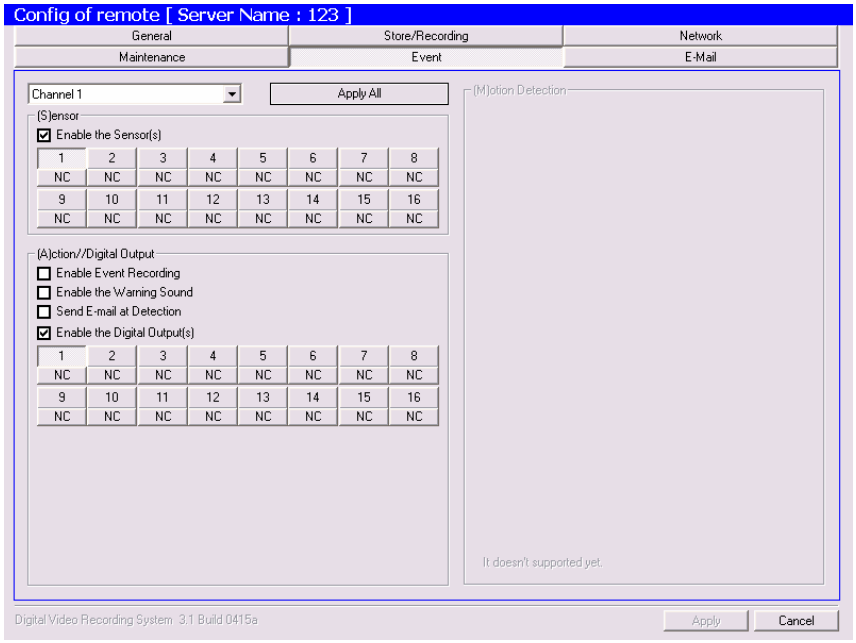
① Windows information
It displays information Windows and system of DVR System

② DVR version information
It displays board model and version of DVR System.

③ System maintain
When DVR System Plus starts, it checks file and image data of DVR System
Normal Check Mode: This check for video data index and program files.
Full Check Mode: System integrity is added from the normal check mode so the duration time can be slow.

④ System auto reboot
It setup specific time to automatically reboot system for checking system maintenance or Windows stability.

Remote configuration>Event


Config of remote [Server Name : 123]
General
Store/Recording
Network
Maintenance
Event
E-Mail
Channel 1
Apply All
(S)ensor
Enable the Sensor(s)
1 2 3 4 5 6 7 8
NC NC NC NC NC NC NC NC
9 10 11 12 13 14 15 16
NC NC NC NC NC NC NC NC
(A)ction//Digital Output
Enable Event Recording
Enable the Warning Sound
Send E-mail at Detection
Enable the Digital Output(s)
1 2 3 4 5 6 7 8
NC NC NC NC NC NC NC NC
9 10 11 12 13 14 15 16
NC NC NC NC NC NC NC NC
(M)otion Detection
It doesn't supported yet.
Digital Video Recording System 3.1 Build 0415a
Apply
Cancel

① Sensor input

Check [Enable the sensors] and configure the channel of camera and sensor input channel.

Ref Sensor type

NO (Normal Open)

Switch of NO type sensor is usually opened. When motion is detected, sensor works by closure of switch. There does not need to configuration at this configuration..

NC (Normal Close)

Switch of NC type sensor is usually closed. When motion is detected, senor works by open of switch. When you use NC type sensor, click [NC] button below sensor number.

② Action

When sensor is triggered, it supports operation of DVR automatically.

Enable event recording

⑤ When sensor is triggered, images of selected channel are recorded by [duration time: establish in ⑤].

Enable the warning sound

When sensor is triggered, sound of selected wave file rings which is established in ④]

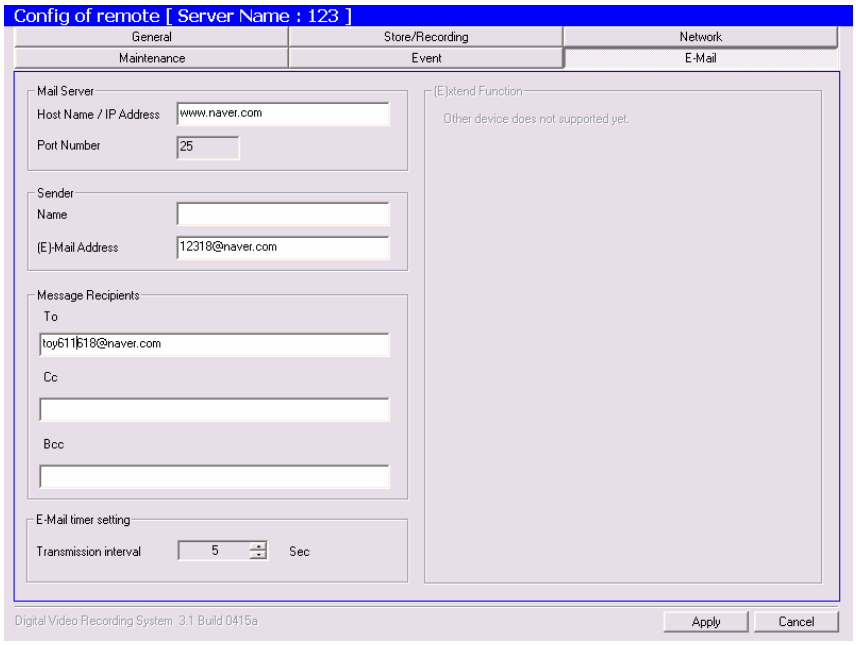
Send e-mail at detection

When sensor is triggered, detected image is transferred to e-mail address which configured at [Configuration>E-mail] in DVR server system.

③ Enable the digital output

When sensor is detected, various output devices such as warning light, siren, warning speaker works.

Remote configuration>E-mail



① **Mail server**

Input IP address at of sender.

Ref Although E-mail function supports almost all mailing service, some mailing service is not available for E-mail function.

② **Sender**

Input name and e-mail address of sender.

③ **Message recipients**

To: Input e-mail address of recipient.

CC: Input e-mail address of other recipient

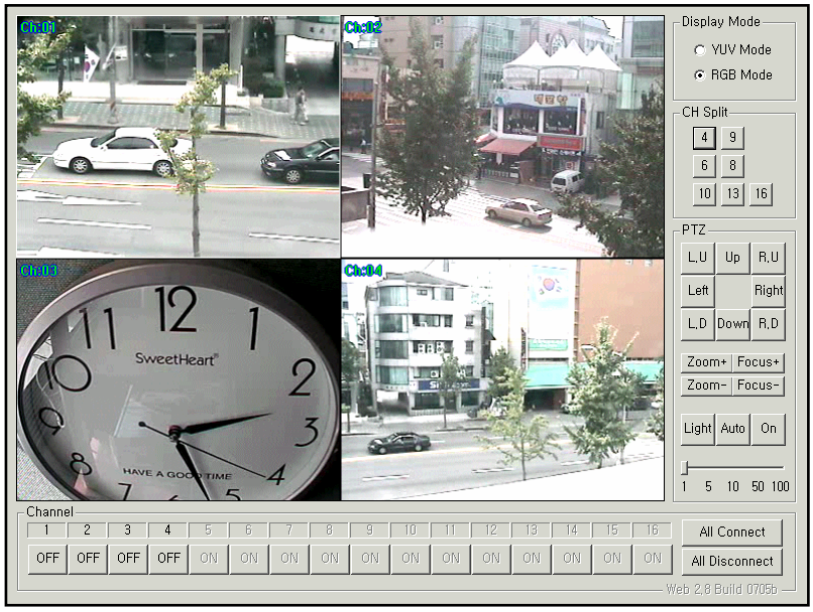
BCC: Input e-mail address for Blind Carbon Copy.

④ **E-mail time setup**

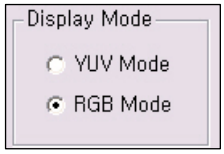
Setup email response time after sensor has been triggered

WebClient Mode

WebClient can receive the images from remote site & view through the internet without installing any other program.



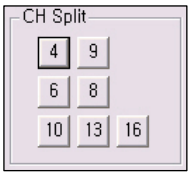
1 Display mode



There are two modes available: [YUV Mode] & [RGB Mode].

Ref If you are not able to view the images using [YUV Mode], update Graphics card driver and if problem persists, check whether the Graphics card supports [YUV Mode] and if not , select [RGB Mode].

2 Screen Mode (Ch Split)



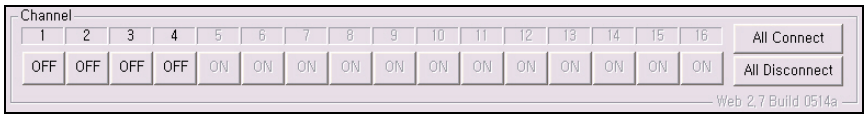
There are 7 variation of screen partitioning that is supported according to camera number

.

3 P/T/Z Control panel

When you use P/T/Z camera at remote site, select channel to monitor. You are able to control P/T/Z function clicking each P/T/Z button. When you control drag bar at below of control panel, you are able to setup play speed of image.

4 Connection



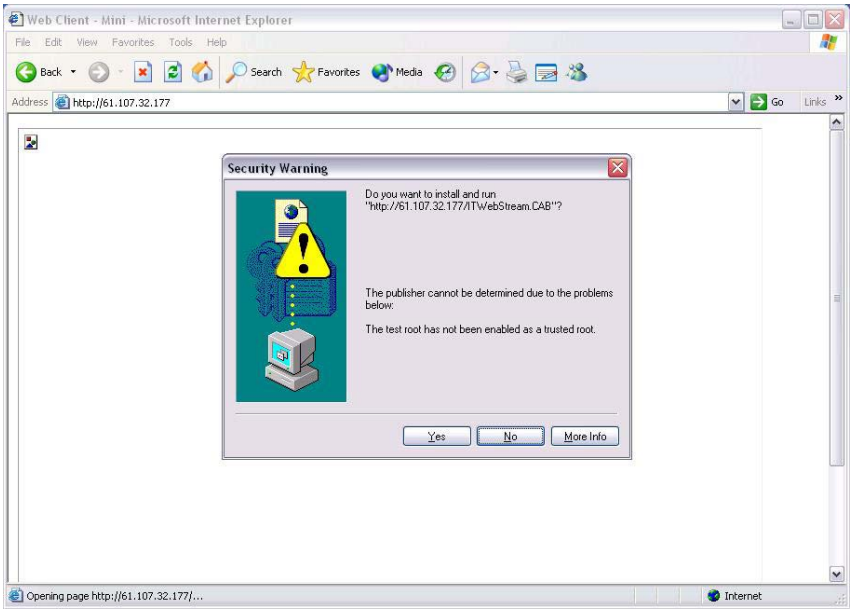
All connect: It is available to connect all channel at one time.

If you wish to specific channel from server, you click channel you want to view.

Connection to DVR systems (Static IP)

Insert the Server IP address in Internet Web browser.

E.g. Insert http://61.107.32.82:26540 if the server IP address is 61.107.32.182.


Web Client - Mini - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://61.107.32.177
Go Links
Security Warning
Do you want to install and run "http://61.107.32.177/ITWebStream.CAB"?
The publisher cannot be determined due to the problems below:
The test root has not been enabled as a trusted root.
Yes
No
More Info
Opening page http://61.107.32.177/...
Internet

Message as above will appear if this is your first time connecting through Internet Web browser. Click [Yes] button and it will take a few seconds to load the WebClient program.

When [Log-in] windows executes, insert ID and Password setup at server and click [Connect] butt.

Connection to DVR system which is registered DHS Service

Click [Log in] button after inserting DHS ID at [ID]. DHS ID has to be as same as used at registration of DHS service.

REF Message as above will appear if this is your first time connecting through Internet Web browser. Click [Yes] button and it will take a few seconds to load the WebClient program.

After program is installed, IP and port is inserted automatically. Insert ID and Password at [Log in] and [Connect] button. ID and Password is as same as used at registration of DHS service.

Compatible / Incompatible

DVR System Specification

	Minimum Spec		Recommendation Spec	
Select	CPU	RAM	CPU	RAM
S	1.7Ghz or higher	128 MB or higher	1.7Ghz or higher	256 MB or higher
H	1.7Ghz or higher	256 MB or higher	2.4Ghz or higher	512 MB or higher
HP	2.4Ghz or higher	512 MB or higher	2.4Ghz or higher	512 MB or higher

DVR System Plus

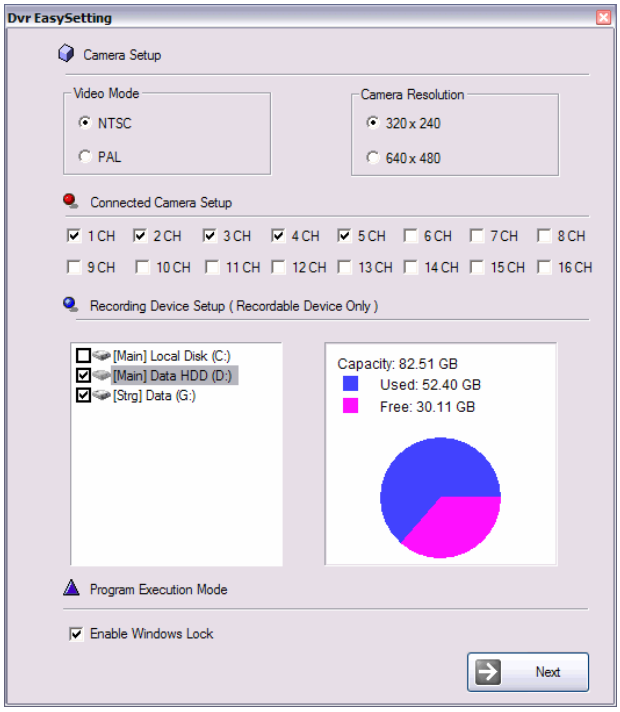
	Compatible	Incompatible
CPU	Intel Pentium Process (x86, 1.7Ghz Over) - Intel Celeron 1.7Ghz or Higher - Intel Pentium IV - AMD Athlon XP	Lower than Intel Pentium 1.7Ghz Process - Other than x86
Mother board	With one or more PCI slot, supporting Intel Pentium processor - Intel 81x Chipset - Intel 84x Chipset - Intel 85x Chipset - Intel 86x Chipset - VIA KM400 <Mother board name> - Chaintech CT-9LIF3 - Chaintech CT-9LIF7 - Chaintech CT-9EJL2 SE - Chaintech M845GV - Albatron PX865PE Pro - GigaByte GA-8GE800Pro - GigaByte GA-8GEM667 - Gigabyte GA-8IG1000MK	Intel CPU/ Via Chipset (694x & 694tx Series…etc) Intel CPU/ SIS Chipset - Gigabyte 81845GVM-RZ (Intel 845 Chipset) - Cyrix C3 Motherboard - MSI Neo2 (Intel 865 Chipset)

	- ASUS P4P800	
VGA (Graphic Card)	With 16MB or higher memory, Supporting 32Bit Color and YUY2 DirectX Mode - ATI Expert 2000 32MB SDRAM - ATI Radeon Series - nVidia Riva TNT2 Series - nVidia Geforce Series - Intel 845G/GL Graphics controller(OnBoard) - Intel 865G Graphics controller(Onboard)	- Intel 81x Graphics Controller (On Board) or Intel i740 - VIA Chipset Onboard Graphic Controller - SIS Chipset Onboard Graphic Controoler - GeForce 4 MX440 AGP8X - ATI Radeon 7000, 9600
Sound Card	Intel CPU/ Via Chipset Board - Gigabyte 81845GVM-RZ (Intel 845 Chipset)	
HDD	HDD 5400RPM or higher	
OS	Windows XP(Professional, Home) Windows 2000 Series=(Real Display DVR driver must be installed manually)	Windows 98 Series Windows ME Mac OS OS/2

NetClient

	Compatible	Incompatible
CPU	All CPU Compatible	
Motherboard	All Motherboard compatible excluding the non-compatible part	SiS, Via chipset motherboard
VGA (Graphic Card)	All Graphic Card compatible excluding the non-compatible part	-When use of Onboard SiS or Via chipset motherboard - SiS, Via chipset motherboard
Sound Card	All PCI slot and Onboard type	
HDD	All 5400RPM or higher HDD	
OS	Windows XP recommend(Professional, Home) Windows 2000 Series Windows 98 Series Windows ME *** Direct x8.0 or higher is necessary**	Mac OS, OS/2

Before operating DVR System Plus…


Dvr EasySetting
Camera Setup
Video Mode
NTSC
PAL
Camera Resolution
320 x 240
640 x 480
Connected Camera Setup
1 CH 2 CH 3 CH 4 CH 5 CH 6 CH 7 CH 8 CH
9 CH 10 CH 11 CH 12 CH 13 CH 14 CH 15 CH 16 CH
Recording Device Setup (Recordable Device Only)
[Main] Local Disk (C:)
[Main] Data HDD (D:)
[Strg] Data (G:)
Capacity: 82.51 GB
Used: 52.40 GB
Free: 30.11 GB
Program Execution Mode
Enable Windows Lock
Next

After installing DVR System Plus, there will be shown Easy Setting window which help basic setup.

1) Camera Setup: Set up cameras which are being connected with DVR System.
   A. Video Mode: Select Video Mode of connected cameras.
      Ref NTSC: North America, Korea, Japan
      PAL: Europe, other countries
   B. Camera Resolution: Select camera resolution. Generally, high resolution (640x480 or 720x576) has good quality but occupy more space of store disk.
   C. Connected Camera Setup: Check the channels which are connected with camera.

2) Recording Device Setup: Check HDD to use as recording device.

Be sure to check the HDD which has free space to record.
Avoid checking HDD which have Operating System.
If checking HDD which have Operating System, it will be unstable due to lack of storage.
Notice If not check any HDD, [C:Drive] will be default.
We recommend to make 2 more partition in HDD.

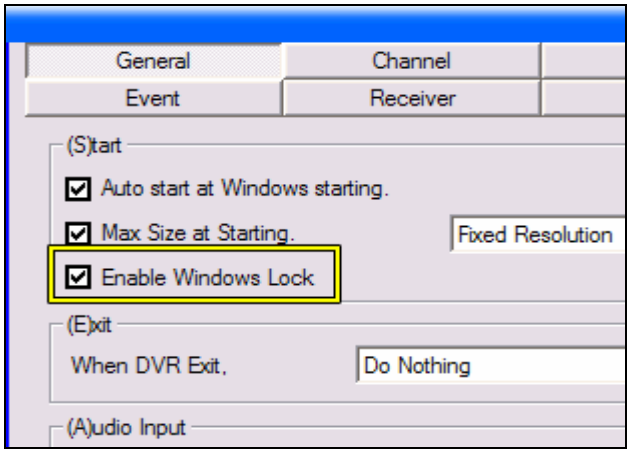
3) Enable Windows Lock: Check when wish to restrict some window shortcut or the other function except DVR Program due to security reason.

If check this function, it is unable to use following functions.

Windows Function	Enable Windows Lock
Screen	Hide
Start Button	Hide
Desk Bar	Hide
System Clock	Hide
Alt+Tab	Unable to use
Task Switching Keys(Alt + Tab)	Unable to use
Task Manager	Unable to use
Ctrl+Alt+Del	Unable to use
Ctrl+Shift+Esc	Unable to use

4) After completing setup, click [Next] button at the bottom of right.
Start operating DVR System, Plus.

Windows Lock



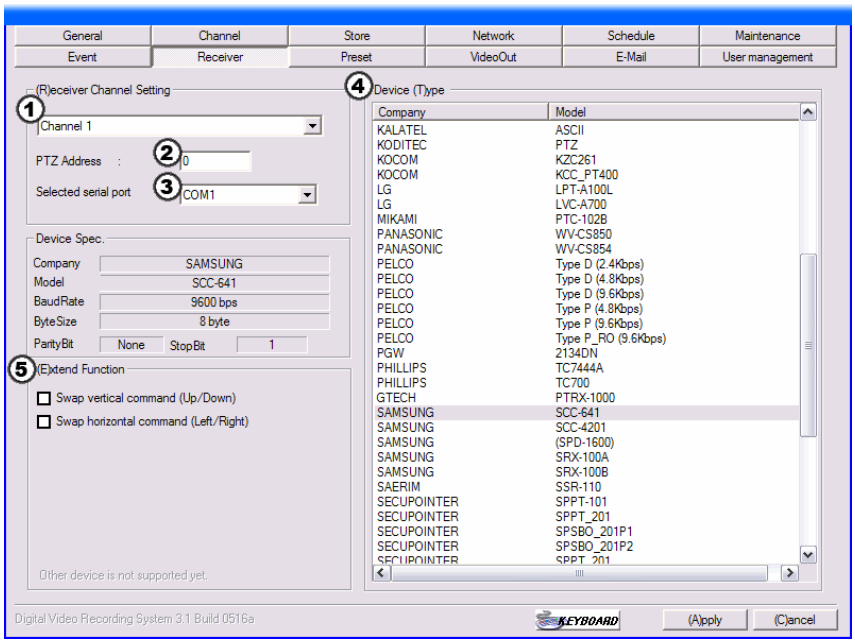
It is enable to setup [Windows Lock] at [Configuration>General].
If check this function, it is unable to use following functions

Windows Function	Enable Windows Lock
Screen	Hide
Start Button	Hide
Desk Bar	Hide
System Clock	Hide
Alt+Tab	Unable to use
Task Switching Keys(Alt + Tab)	Unable to use
Task Manager	Unable to use
Ctrl+Alt+Del	Unable to use
Ctrl+Shift+Esc	Unable to use

Setup PTZ

DVR System Plus support PTZ Camera.

It is enable to setup Protocol and Camera Address for each channel.



① Select the channel which is connected with PTZ Camera.

② Setup Camera Address of the PTZ Camera. General Camera Address can be controlled among 0~255. Refer to Camera manual for the method of setup camera address as it is different from manufacturer and kind of cameras.

③ Select Serial Port which is connected with PTZ Camera.

④ Select Protocol of PTZ Camera.

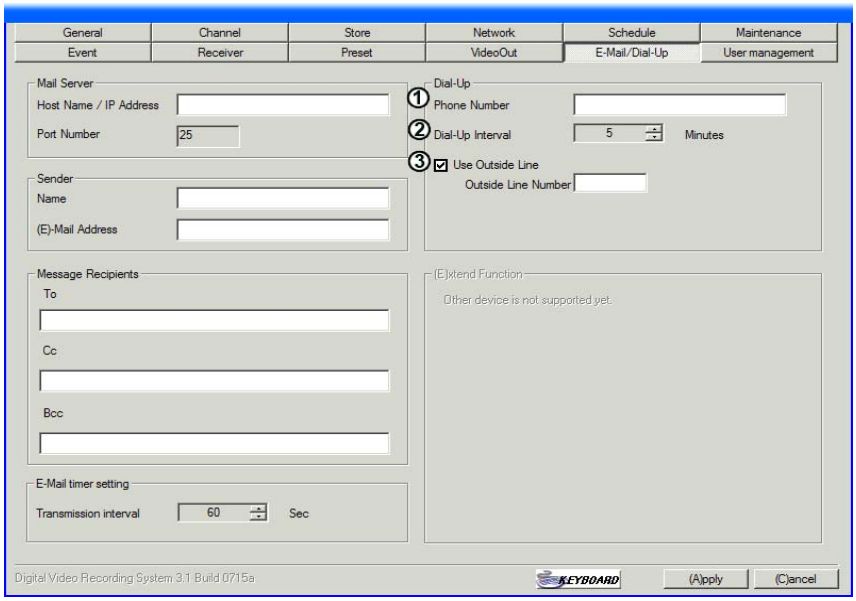
⑤ If coordinate of camera move as left/right or up/down, check option and correct it.

⑥ Click [Apply] button and complete PTZ Setup.

⑦ If wish to set up PTZ Camera which is connected to other channel, repeat the same step as above ①~⑤.

Dial-up

In case event occurs, DVR System Plus can achieve action that call to telephone number that is selected
Only, DVR System has Modem that should be support Windows XP or Windows 2000.
Caution In case this function is acted, telephone charges are added.

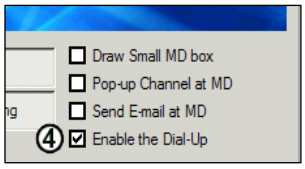


① Input telephone number without ' - '.

② Specify interval of transmission.
In case event occurs, according to interval that is setup call phone.

③ In case it is inter phone, must use outside line number. Outside line number is different in each inter system, it needs to ask to administrator.

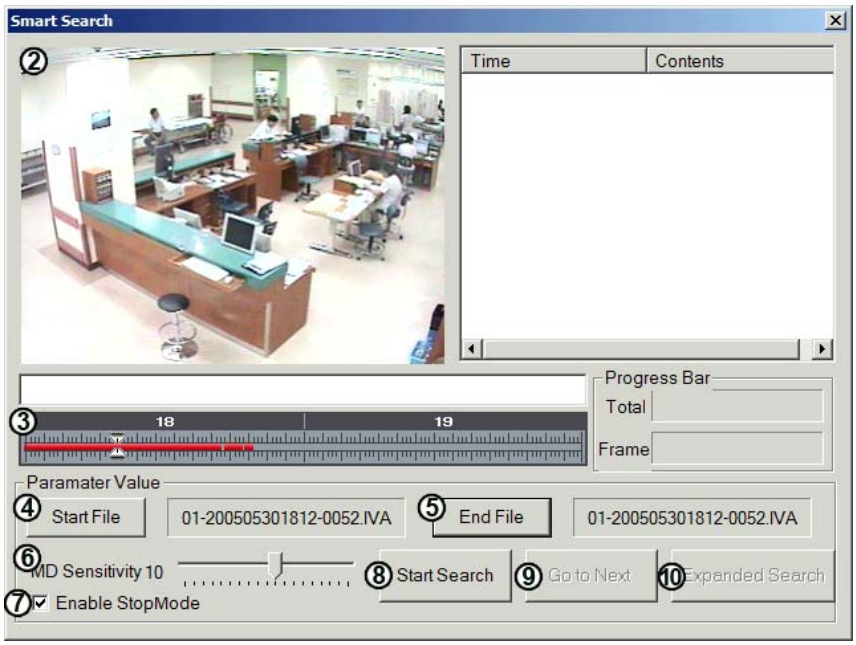
④ If choose [Enable the Dial Up] In the [configuration>event>motion detection], according to appointed time, interval and telephone number, call phone.

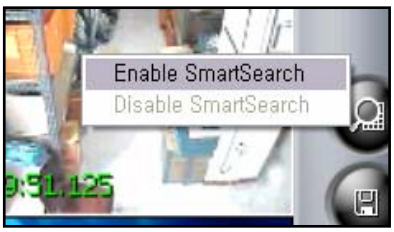


Ref Voice warning and statement do not delivery.

Smart Search

It is function that motion has searched time that is for movement of the segment when user selects specific segment in recorded image.





① When use Smart search, after press the Pause button in the channel you want to use, click the right button of mouse and then click the Enable Smart Search.
Ref Return to Search mode again by click 'Disable Smart Search' by same method after using SMART search.

② Designate area to sense motion by click left button of mouse.
(If click right button of mouse, designated area is canceled)

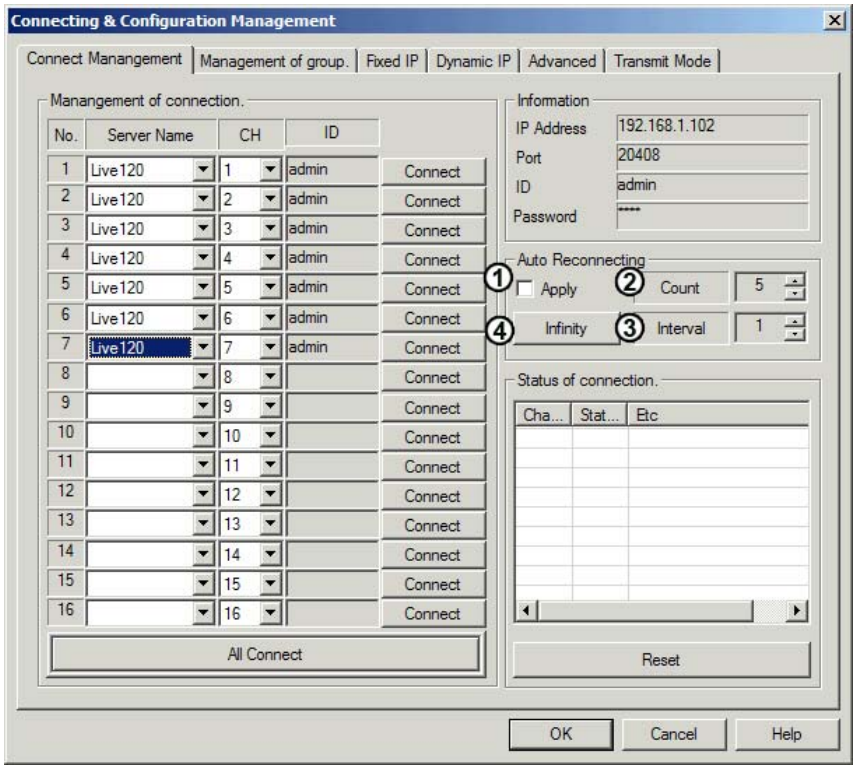
③ Move Time Point to time zone to search.

④ After move Time Point to time to begin search, click “Start file”
⑤ After move Time Point to time to end search, click “Last file”
⑥ Select sensitivity to sense motion. Sensitivity is divided into 20 steps and it is getting higher as number
⑦ Select option that stops searching whenever motion is detected and then show relevant screen.
In case of not being selected, search screen from beginning-time to end-time in regularly.
⑧ Start Smart Search.
⑨ when setup the Stop Mode, use Smart Search.
⑩ After end of search finally, when wish to watch screen which is already searched in Search Mode, use Smart Search.

Support the time that motion is sensed with function such as Playback / 2xPlayback search and Reverse Playback so on in Search Mode.

Auto-reconnection function

When the server is shut down and re-booted again, the Netclient program is automatically reconnected. The interval of reconnection trial and the trial number can be configured.



This function is applicable in circumstance such as below.

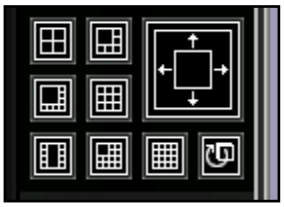
- ✓ When camera off in moment due to disconnection of camera cable in server
- ✓ Disconnection of network in moment by change IP in dynamic IP system.
- ✓ When network is disconnected frequently in Server or Client due to not good the condition of network

✓ When Server system is reboot or off

① Decide to use Auto reconnection function or not.
② Setup frequency to try Auto reconnection.
③ Control time interval when try Auto reconnection
Ex In case of setup 1mitute, try to Auto reconnection in every 1minute.
④ In case of disconnection, Auto reconnection is executed automatically according to time interval designated.

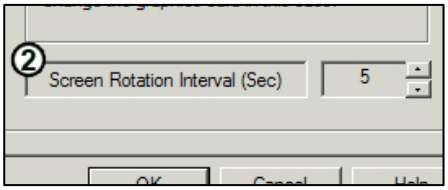
Auto-switching display function

It is function that switches image which is connected in Remote Surveillance Mode of Net Client. Auto-switching display has the method same as server function.



① Click the button of Switching Display and then image is showed by switching according to designated time.

② Can setup time interval of switching display by second in [Connecting&Configuration Management>Advanced]



AVI Backup

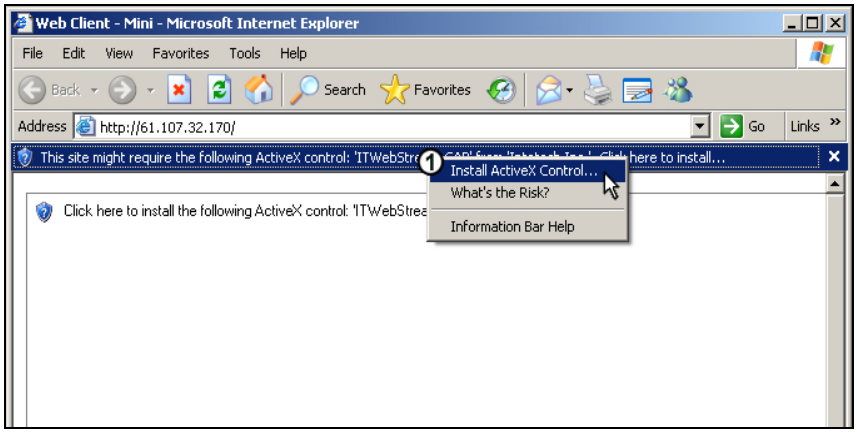
AVI Backup function is added new in NetClient v3.1 build 0715a.

Using method and composition are that click AVI Backup Manager Button after getting into search mode by clicking DVR System Plus's Search button.

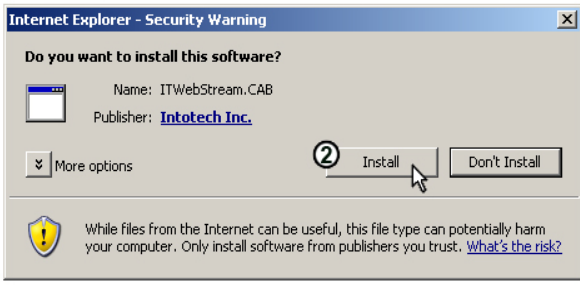
Web Client Change (Windows XP Service Pack 2)

The WebClient of v3.1 build 0715a Version gets the Certification from Thawte which is certificating company of ActiveX.

So, WebClient program can be freely accessed without any additional procedure when using Windows XP SP2.


Web Client - Mini - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://61.107.32.170/
Go Links
This site might require the following ActiveX control: 'ITWebStr
here to install...
Install ActiveX Control...
What's the Risk?
Information Bar Help
Click here to install the following ActiveX control: 'ITWebStrea

① when connect to DHS Service or DVR Server at first time in Client PC which is setup Windows XP Service Pack 2, can see the warning of setup Active X like above picture. Click the yellow bar of top portion and select 'Install ActiveX Control ...'.


Internet Explorer - Security Warning
Do you want to install this software?
Name: ITWebStream.CAB
Publisher: Intotech Inc.
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

② Ask to you install s/w or not with message “ActiveX that is certificated with WebClient like above. Click Install and setup WebClient.